CONSTRUCTION NEWS

Engineering News-Record, September 13, 1923

The Construction Barometer

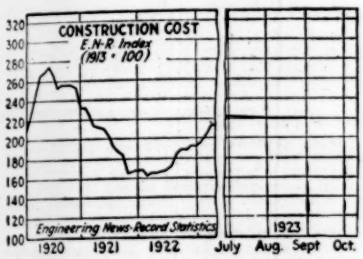
Cost Stabilizing—Seasonal Drop in Contracts—Sewers Gain

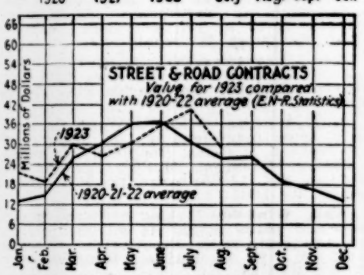
WHILE construction materials' prices have declined somewhat since the "buyers' strike" movement in April, the tendency at present is toward stabilization at current market levels.

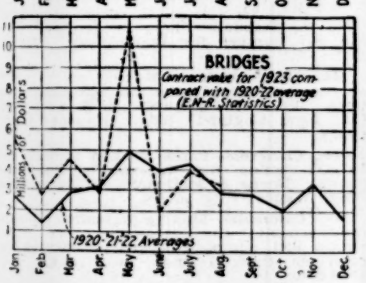
E. N.-R. Construction Cost Index Number, 221.50, for September, is the same as for the preceding month, while volume of construction fell 30 per cent during August.

Industrial works and sewers represent the only two classes of construction not showing a decline in value of contracts awarded during the last month. Much of the falling off in other classifications, however, is purely seasonal.

Lettings gained somewhat during the week of Sept. 6, particularly in public buildings. Large public jobs, taking bids, increased over 4 per cent.







E. N.-R. Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Aug. 23	$17,906,000	$13,376,000	$31,282,000
Aug. 30	12,669,000	15,178,000	27,847,000
Sept. 6	28,163,000	17,205,000	45,368,000
3 Weeks	$58,738,000	$45,759,000	$104,497,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

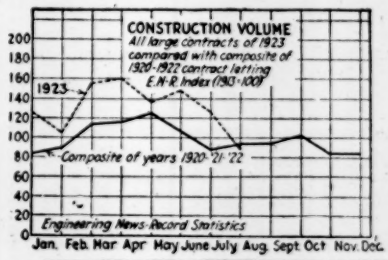
Week Ended	Public No.	Public Work	Private No.	Private Work
Aug. 23	15	$4,755,000	27	$7,140,000
Aug. 30	8	1,496,000	25	12,342,000
Sept. 6	16	9,563,000	16	8,019,000
3 Weeks	39	$15,814,000	68	$27,501,000

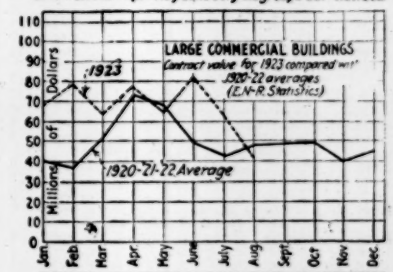
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

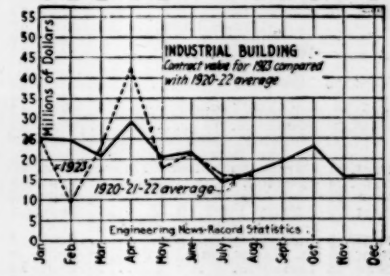
Week Ended	Private	Public All	Public Streets and Roads	Public Waterworks and Sewers	Public All Buildings
Aug. 23	28	215	87	35	45
Aug. 30	28	189	66	33	51
Sept. 6	35	197	83	32	42

BASIC MATERIALS PRICES FIRM

	Quoted on Sept. 13, at	Price Was	On
Structurals, Pittsburgh, 100 lb.	$2.50	@2.60	June 21
Cement, Chi., net bbl.	2.20	2.05	Feb. 1
Pine, N. Y., M. ft.	61.00	63.00	Sept. 6
Fir, San Fran., M. ft.	38.00	41.00	Aug. 30
Common labor	.54	.53	June 28


CONSTRUCTION VOLUME
All large contracts of 1923 compared with composite of 1920-1922 contract letting
E.N-R Index (1913=100)
1923
Composite of years 1920-21-22
Engineering News-Record Statistics
Jan. Feb. Mar Apr May June July Aug. Sept Oct Nov. Dec.





PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Sept. 15	Grand Island, N. Y.	Aug. 30
	Adv. Aug. 30 to Sept. 13.	
Sept. 17	Crescent City, Fla.	Sept. 6
Sept. 17	Trenton, Mich.	Sept. 6
Sept. 18	McAlester, Okla.	Aug. 30
Sept. 18	New York, N. Y.	Sept. 13
Sept. 19	South Bend, Ind.	Aug. 30
Sept. 19	Brooklyn, N. Y.	Sept. 13
Sept. 21	Trenton, N. J.	Sept. 13
Sept. 25	Ft. Worth, Tex.	Sept. 6
Sept. 26	Providence, R. I.	Aug. 30
Sept. 27	Bordentown, N. J.	Sept. 6
Sept. 27	Galveston, Tex.	Sept. 13
Oct. 2	Wallington, N. J.	Sept. 13
Oct. 3	Portland, Ore.	Sept. 13
	Adv. Sept. 6 and 13.	
Oct. 4	Stoneham (Boston P. O.), Mass.	Sept. 13
Oct. 9	Toronto, Ont.	Sept. 13
Oct. 11	Danville, Va.	Sept. 13
	Adv. Sept. 13.	

SEWERS

Bids Close		See Eng. News-Record
Sept. 14	Wash., D. C.	Aug. 30
Sept. 14	Wash., D. C.	Sept. 6
Sept. 14	Millville, N. J.	Sept. 6
Sept. 15	Norfolk, Va.	Aug. 30
Sept. 17	Plainfield, N. J.	Sept. 6
Sept. 17	Berea, O.	Sept. 13
	Adv. Sept. 13.	
Sept. 17	Barberton, O.	Sept. 13
Sept. 17	St. George, N. Y.	Sept. 13
Sept. 17	Watsontown, Pa.	Sept. 13
Sept. 18	Denver, Colo.	Sept. 13
Sept. 20	Brooklyn, N. Y.	Sept. 13
Sept. 24	St. Petersburg, Fla.	Aug. 28
Sept. 24	Leesburg, Fla.	Sept. 6
Sept. 26	Berwick, Pa.	Sept. 6
	Adv. Sept. 6 and 13.	
Oct. 9	Bluefield, W. Va.	Sept. 13
	Adv. Sept. 13.	
Nov. 1	Fort Erie, Ont.	Aug. 23

WASTE DISPOSAL

Bids Close		See Eng. News-Record
Sept. 17	St. Petersburg, Fla.	Aug. 23
Sept. 25	Indianapolis, Ind.	Sept. 13

BRIDGES

Bids Close		See Eng. News-Record
Sept. 18	Omak, Wash.	Sept. 13
Sept. 19	Phila., Pa.	Aug. 23
	Adv. Sept. 6 and 13.	
Sept. 19	Freehold, N. J.	Sept. 13
	Adv. Sept. 6 and 13.	
Sept. 20	Greenwood, Miss.	Sept. 6
Sept. 20	Milwaukee, Wis.	Sept. 13
Sept. 24	New Jersey	Sept. 6
	Adv. Sept. 6 and 13.	
Sept. 24	York, Pa.	Sept. 13
	Adv. Sept. 13.	
Sept. 25	Michigan	Sept. 13
Sept. 26	Minnesota	Sept. 13
Sept. 27	Chicago, Ill.	Sept. 6
Sept. 28	Oil City, Pa.	Sept. 6
	Adv. Sept. 6 and 13.	
Oct. 2	Mermentau, Mich.	Aug. 30
	Adv. Aug. 30 to Sept. 13.	
Oct. 2	Johnstown, Pa.	Sept. 13
	Adv. Sept. 13.	

Bids Close		See Eng. News-Record
Oct. 2	Louisiana	Sept. 13
Oct. 16	Clearwater, Fla. Adv. Sept. 13.	Sept. 13
Nov. 30	Sydney, Australia	Apr. 19

RAILWAYS

Oct. 3	California	Sept. 13

EXCAVATION, DRAINAGE IRRIGATION

Sept. 18	Lake Charles, La.	Aug. 23
Sept. 19	Granite Falls, Minn.	Sept. 13
Sept. 27	Riverhead, N. Y. Adv. Sept. 13.	Sept. 13
Oct. 1	Benton, Mo. Adv. Sept. 13.	Sept. 13

STREETS AND ROADS

Sept. 14	New York Adv. Sept. 6 and 13.	Sept. 6
Sept. 15	Niagara Falls, N. Y.	Aug. 30
Sept. 15	Tonawanda, N. Y. Adv. Aug. 30 to Sept. 13.	Aug. 30
Sept. 15	Conroe, Tex.	Sept. 6
Sept. 15	Honey Grove, Tex.	Sept. 6
Sept. 15	Bonham, Tex.	Sept. 6
Sept. 17	Virginia	Sept. 6
Sept. 17	California	Sept. 6
Sept. 17	Kansas City, Kan.	Sept. 6
Sept. 17	Ivanhoe, Minn.	Sept. 6
Sept. 17	St. George, N. Y.	Sept. 6
Sept. 17	Watertown, S. D.	Sept. 13
Sept. 17	Indiana	Sept. 13
Sept. 17	Sparta, Ill. Adv. Sept. 13.	Sept. 13
Sept. 17	Forest City, Ark.	Sept. 13
Sept. 17	Sapulpa, Okla.	Sept. 13
Sept. 17	Oskaloosa, Ia.	Sept. 13
Sept. 18	Massachusetts	Sept. 13
Sept. 18	Marlin, Tex.	Sept. 13
Sept. 18	Clinton, Okla.	Aug. 30
Sept. 18	Louisiana	Sept. 6
Sept. 18	Waurika, Okla.	Sept. 6
Sept. 18	Alabama	Sept. 6
Sept. 18	Trenton, N. J.	Sept. 6
Sept. 18	Abbeville, La.	Sept. 13
Sept. 18	Grosse Pointe Park (Detroit P. O.), Mich.	Sept. 13
Sept. 19	St. George, N. Y.	Sept. 13
Sept. 19	Oklahoma	Sept. 13
Sept. 19	Delaware	Sept. 13
Sept. 19	Belvidere, N. J. Adv. Aug. 30 to Sept. 13.	Sept. 6
Sept. 19	Water Valley, Miss.	Sept. 6
Sept. 19	Nevada	Sept. 13
Sept. 19	Michigan	Sept. 13
Sept. 20	Newton, N. J. Adv. Sept. 6 and 13.	Sept. 6
Sept. 20	Alpine, Tex.	Sept. 6
Sept. 20	Tuscaloosa, Ala.	Sept. 6
Sept. 20	Louisiana	Sept. 6
Sept. 20	Akron, O.	Sept. 13
Sept. 20	San Rafael, Calif.	Sept. 13
Sept. 20	Mt. Gilead, N. C.	Sept. 13
Sept. 20	Warsaw, N. Y. Adv. Sept. 13.	Sept. 13
Sept. 20	Michigan	Sept. 13
Sept. 20	Brooklyn, N. Y.	Sept. 13
Sept. 21	Elkhorn, Wis.	Sept. 13
Sept. 21	Minot, N. D.	Sept. 13
Sept. 22	Norwalk, Conn. Adv. Sept. 13.	Sept. 13
Sept. 24	Carrollton, Miss.	Aug. 30
Sept. 24	Bronson, Kan.	Sept. 6
Sept. 24	Leesburg, Fla	Sept. 6
Sept. 24	Asbury Park, N. J. Adv. Sept. 6 and 13.	Sept. 6
Sept. 25	Independence, Kan.	Sept. 6
Sept. 25	St. Louis, Mo.	Sept. 6
Sept. 25	Louisiana	Sept. 6
Sept. 25	Washington	Sept. 13
Sept. 26	Kentucky	Sept. 13
Sept. 26	Kentucky	Aug. 23
Sept. 26	Minnesota	Aug. 30
Sept. 26	Aberdeen, Miss.	Sept. 6
Sept. 26	Kentucky	Sept. 13
Sept. 27	Florida	Sept. 13
Sept. 28	Topeka, Kan.	Sept. 6
Oct. 1	Kelso, Wash.	Sept. 13
Oct 2	St. Louis, Mo.	Sept. 6
Oct. 16	Clearwater, Fla. Adv. Sept. 13.	Sept. 13

INDUSTRIAL WORK

Sept. 20	Palmyra, N. Y.	Sept. 13

BUILDINGS

Sept. 15	Johnstown, Pa.	Sept. 6
Sept. 17	Jackson, Miss.	Sept. 6
Sept. 18	Richmond Hill, N. Y.	Sept. 6
Sept. 19	Los Angeles, Calif.	Sept. 13
Sept. 19	Sioux City, Ia.	Sept. 13
Sept. 20	Oakwood (Dayton P. O.), O.	Sept. 13
Sept. 21	Haywood, Wis.	Aug. 30
Sept. 21	Findlay, O.	Sept. 6
Sept. 22	Duluth, Minn.	Sept. 6
Sept. 22	Arlington, Tex.	Sept. 13
Sept. 23	Atlantic City, N. J.	Sept. 13
Sept. 24	Mandan, N. D.	Aug. 30
Sept. 25	New York, N. Y.	Sept. 13
Sept. 25	Dearborn, Mich.	Sept. 13

Bids Close		See Eng. News-Record
Sept. 28	Institute, W. Va.	July 26
Sept. 28	Pruntytown (Grafton P. O.), W. Va.	Aug. 2
Sept. 28	Montgomery, W. Va.	Aug. 9
Sept. 28	Institute, W. Va.	Aug. 9
Sept. 28	Huntington, W. Va.	Sept. 6
Sept. 28	Duluth, Minn.	Sept. 13
Sept. 29	Duluth, Minn.	Sept. 13
Oct. 1	Memphis, Tenn.	Sept. 6
Oct. 2	Louisville, Ky.	Sept. 13
Oct 8	Wichita, Kan.	Sept. 6
Oct. 9	Louisville, Ky.	Sept. 13
Oct. 10	Virginia, Minn.	Sept 13
Oct. 10	Birmingham, Ala.	Aug. 30
Nov. 1	Ft. Worth, Tex.	July 12
Nov. 1	Dallas, Tex.	Aug. 2

FEDERAL GOVERNMENT WORK

Sept. 17	Quarters, etc. — Rutland, Mass.	Aug. 23
Sept. 17	Road—South Dakota	Sept. 13
Sept. 19	Laboratory—Wash., D. C.	Aug. 30
Sept. 24	Road Repair—Ft. Riley, Kan. Adv. Sept. 6 and 13.	Sept. 6
Sept. 24	Generator Unit, etc. — Buffalo, N. Y. Adv. Sept. 13.	Sept. 13
Sept. 25	Dredging—Galveston, Tex. Adv. Aug. 30 to Sept. 13.	Aug. 30
Sept. 25	Dredging — Providence, R. I. Adv. Aug. 30 to Sept. 13.	Aug. 30
Sept. 26	Changes—Boston, Mass. Adv. Sept. 13.	Sept. 13
Sept. 28	Breakwater — Milwaukee, Wis. Adv. Aug. 30 to Sept. 13.	Aug. 30
Sept. 28	Mailing Vestibule—Grand Junction, Colo.	Sept. 6
Sept. 29	Outside Service Lines—Dawson Springs, Ky. Adv. Sept. 6 and 13.	Sept. 6
Oct. 3	Gates, Hoists, etc.—Denver, Colo.	Sept. 6
Oct. 3	Superstructure — Dunkirk, N. Y. Adv. Sept. 6 and 13.	Sept. 6
Oct. 4	Recreation Building, etc. — Wash., D. C. Adv. Sept. 13.	Sept. 13
Oct. 15	Breakwater—Hilo, H. T. Adv. Aug. 23 to Sept. 13.	Aug. 23
Nov. 1	Pipe Line Dredge—Chicago, Ill. Adv. Sept. 6 and 13.	Sept. 6

MISCELLANEOUS

Sept. 17	Elimination of Grade Crossing —Youngstown, O.	Aug. 30
Sept. 17	Electric Light System—Washington, La.	Sept. 6
Sept. 17	Gas System — Fairfax, Okla.	Sept. 6
Sept. 17	Dock and Yacht Basin — Sanford, Fla.	Sept. 13
Sept. 18	Portland Cement—St. Paul, Minn.	Sept. 13
Sept. 18	Grade Separation — Milwaukee, Wis.	Sept. 13
Sept. 19	Lock Gates, etc.—Illinois. Adv. Aug. 16 to Sept. 13.	Aug. 23
Sept. 19	Cement, etc.—New York, N. Y.	Sept. 13
Sept. 19	Heating and Ventilating Apparatus, etc. — New York, N. Y.	Sept. 13
Sept. 20	Asphaltic Cement, etc.—Brooklyn, N. Y.	Sept. 13
Sept. 21	Culvert — Marked Tree, Ark. Adv. Sept. 13.	Sept. 13
Sept. 25	Culvert—St. Louis, Mo.	Aug. 30
Sept. 28	Cement—Jefferson City, Mo.	Aug. 23
Oct. 1	Gravel—Baton Rouge, La.	Sept. 13
Oct. 2	Wharf—Harrop, B. C.	Sept. 13
Oct. 6	Volt Insulators—Melbourne, Australia	Aug. 16
Feb. 28	Headworks — Wellington, New Zealand	May 24

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Mount Vernon—Bd. Water Supply, 19 Prospect Ave., rejected bids furnishing all materials except c.i. pipe and special castings to be furnished by city, and performing all labor for construction complete c.i. mains, with valves, hydrants, etc. N. S. Hill, 112 East 19th St., New York, consult. engr. Will readvertise. Noted Aug. 16.

N. Y., Potsdam—Soon taken bids filtration plant. $100,000. C. A. Po... Church St., New York City, engr.

Fla., Daytona—Election Oct. ... to vote on $100,000 bonds extending ... waterworks system. C. M. Hodges, Day...a, engr. Noted Aug. 2.

Fla., Tampa — City plans waterworks. $1,273,000. N. S. Hill, 112 East 19th St., New York City, engr.

Ala., Talladega—Plans rein.-con. reservoir at Taylors Mills, water will be brought 4½ mi. to reservoir, then to city by gravity. will also install 2 centrifugal pumps. $263,000.

Tenn., Cookeville—Sept. 29, to vote on $100,000 bonds for water plant improvements and extensions and sewerage system.

Tenn., Union City—Sept. 15, to vote on $125,000 bonds extensions and improvements to waterworks and sewerage system.

Ky., Louisville—Louisville Water Co., 3rd St., plans about 2 mi. 48 in. main from reservoir to Eastern Parkway. $100,000. J. Chambers, c/o owner, ch. engr.

O., Whitehouse — Plans water system. $35,000. Engineer not announced.

Mich., Detroit—Water Bd. having plans prepared 10,928 ft. 6 in. and 8,347 ft. 8 in. c.i. mains in Moenart, Rowley, Coventry, Monica, Astonia, Stoepel, Horatio, Livernois, Linzee, Andover, Wark, Prairie, Bloom and State Fair Aves. T. A. Leisen, Waterworks Park, engr.

Wis., Athens — Preparing plans water and sewerage systems, incl. water supply, pumping equipment, water and sewer mains, sewage disposal plant. $77,000. W. J. Kirchoffer, Dean Bldg., Madison, engr. Noted Aug. 2.

Wis., Whitehall — Preparing plans extending waterworks and sewerage system, also extending watermains and sanitary sewers, 10-12 in. rein.-con. pipe. $15,000. C. J. Vantattel, Whitehall, engr.

Kan., Leavenworth — Soon takes bids main extensions in Grand Ave., 13th, 5th, Isabelle, Thorton and Marion Sts., 11 fire hydrants. $17,250-$20,000.

Kan., Wichita—Wichcita Water Co. plans 6 in. pipe extensions in 30 blocks incl. Mathewson, Estelle, Fountain, Hydraulic, Lincoln, Martinson, Mosley, Franklin and Kellogg Sts., 18 fire hydrants. P. L. Brockway, City Bldg., engr.

Kan., Winfield—Making preliminary survey and plans laying 4½ mi. mains from end present wells to Albright Gardens. $112,000. H. P. Haynes, Winfield, engr. Noted May 31.

N. D., Mandan—Plans to purchase one 350 gal. pumper for Water Dept. W. J. Seitz, city aud.

Mo., Breckenridge — Making preliminary surveys and plans water and sewerage systems. To exceed $35,000. E. T. Archer & Co., New England Bldg., Kansas City, engrs.

Mo., Cameron—Plans election to vote on $53,433 bonds for waterworks improvements. Burns & McDonell, 401 Interstate Bldg., Kansas City, engrs.

Mo., Columbia—Making preliminary plans improvements to waterworks and light plants, incl. mains, 6 in. and up, increasing reservoir from 1 m.g. to 3 m.g., etc. $160,000.

Mo., Drexel — Making surveys for distribution mains, and 5 m.g. reservoir, etc. J. P. Davis, Jefferson City, engr.

Mo., Jamesport—See "Sewers."

Mo., Maysville—Defeated $44,000 bonds waterworks improvements. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engrs. Noetd Aug. 16.

Mo., Miller—Soon takes bids waterworks and electric light plant. To exceed $25,000. Alexander Eng. Co., Springfield, engrs.

Mo., Salem—Plans election soon to vote on bonds for waterworks. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

Tex., Austin—Election Oct. 15 to vote on $400,000 bonds for 8 m.g. rapid sand filtration plant. J. B. Hawley, Cotton Exch. Bldg., Ft. Worth, engr. Noted July 28.

Tex., Dublin—Making plans main extensions. $18,000. G. Anderson, Dublin, engr.

Tex., Greenville—Defeated $325,000 bond issue complete waterworks system, new source of supply, etc. A. D. Duck, Greenville, engr. Noted Aug. 9.

Tex., Marshall—Election Oct. 9 to vote on $80,000 bonds, for waterworks and $20,000 bonds for sewers. Elrod Eng. Co., 3206 Elm St., Dallas, engrs. Noted Apr. 19.

Waterworks (Continued)

Tex., Roscoe—Rejected bids waterworks improvements. Will readvertise. Montgomery Ward Co., City Natl. Bank, Wichita Falls, engrs.

Tex., Wylie—Having plans for waterworks Municipal Eng. Co., Praetorian Bldg., Dallas, engrs. $50,000. Noted Nov. 30.

Okla., Cyril—Voted $31,000 bonds water distribution system, well, pump and engine, tank and tower, 23,100 ft. 2-6 in. c.i. pipe, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Sapulpa—Plans election soon to vote on $100,000 bonds extending and improving water works. F. Dunlop, city clk.

Wash., Kelso—Plans new water system. $40,000. U. G. Jackson, city engr.

Calif., Redwood City—Plans to vote on bonds (to exceed $25,000) to purchase and improve privately owned water works system. C. L. Dimmitt, city engr.

Ont., Fonthill—James, Proctor & Redfern, engrs., 36 Toronto St., Toronto, preparing report on waterworks system, incl. c.i. mains, reservoir, centrifugal pumps, pumphouse, valves, hydrants, etc., for town. $52,000. Noted Sept. 6.

Ont., Goderich — Preparing plans new steel intake pipe for waterworks. $75,000. E. H. Darling, 47 Home Bank Bldg., Hamilton, engr.

Ont., Walkerton — Voted $25,000 bonds rebuilding old waterworks reservoir and erecting new steel standpipe, (200,000 gal.), and additional pumps. F. B. James, Walkerton engr.

BIDS DESIRED

Mass., Stoneham (Boston P. O.)—Oct. 4, by Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, constructing and installing pumping engine, 20 m.g.d., at Spot Pond pumping station, here. G. L. Rogers, secy.

N. Y., Brooklyn — Sept. 19, by N. J. Hayes, comr., Water Supply, Gas & Electricity, Municipal Bldg., New York, mains and appurtenances in Bath, Cropsey, Emmons, 14th, Bedford, Lincoln, Sutter and 15th Aves., Mackenzie, Norfolk, Oxford, 58th, 62nd, 66th, 67th, 70th, East 3rd, East 5th, East 7th, East 8th, East 9th, East 10th, East 12th, East 28th, East 95th, West 10th, Jerome and Osborn Sts., Glenwood and Sheepshead Rds., Shore Blvd., Kings Highway and Parrott Pl., here.

N. Y., New York — Sept. 18, by N. J. Hayes, comr., Water Supply, Gas & Electricity, Municipal Bldg., laying mains and appurtenances in Allerton, Benedict, Bruner, Edison, Ely, Fenton, Grace, Gunther, Holland, Lacombe, Mace, Matthews, McGraw, Newman, Nereid, O'Brien, Stephens, Ward, Wayne, Yates, Davidson, Gouverneur, Orloff, Riverdale, Sedgwick, Tyndall, Van Cortlandt and Aqueduct Aves., East 178th, East 193rd, West 235th and West 254th Sts., Arnow Pl., White Plains Rd., Grand Concourse and Mosholu Parkway.

N. J., Trenton—Sept. 21, for one 15 hp., 230 volt., 1,150 r.p.m. motor, and 6 in. type S double suction split casing centrifugal pump for Water Dept. A. Bugbee, city engr.

N. J., Trenton—Sept. 21, for 450 tons 10 in. Class B c.i. pipe. A. Bugbee, city engr.

N. J., Wallington — Oct. 2, by Passaic Valley Sewerage Comrs., 900 Chamber of Commerce Bldg., 24 Branford Pl., Newark, pumping machinery and equipment for Wallington Pumping Sta., here. J. H. Quigg, clk.

Va., Danville—Oct. 11, filters and pumping machinery. F. Talbott, supt. Water Dept.; adv. E. N.-R. Sept. 13.

S. C., Greenville—J. E. Sirrine & Co., engrs., Greenville, receiving bids complete waterworks and sewerage systems for village.

Wis., Fond du Lac — G. H. Stanchfield, engr., City Hall, taking bids one 10 in. and one 20 in. centrifugal pump and addition to septic sewer tanks.

Tex., Edgewood—Taking bids waterworks improvements incl. 2 crude oil engines directly connected to alternators, motor driven centrifugal pump, c.i. pipe, steeel tank and tower, hydrants and valves. $40,000 bond issue approved by Attorney Generals Dept. Municipal Eng. Co., 715 Praetorian Bldg., Dallas, engrs. Noted Aug. 30.

Tex., Galveston—Sept. 27, by J. D. Kelly, city secy., waterworks improvements incl. one Ingersoll-Rand fly-wheel cross compound steam driven air compressor, 1,150 ft. capacity, one Knowles duplex tandem compound direct acting pump, 4 m.g. capacity, one low pressure duplex tandem compound direct acting pump, 6 m.g. capacity, also necessary condensors, piping and equipment. W. D. Masterson, supt. waterworks.

Ore., Portland—Oct. 3, at office G. R. Funk, aud., City Hall, for 25 mi. Bull Run Conduit 3, from Bull Run to Mt. Tabor Reservoirs, in city; adv. E. N.-R. Sept. 13. Noted Aug. 30.

Calif., Huntington Park — Sept. 17, by City Trustees, 1 horizontal centrifugal pump, 350 g.p.m. against 125 ft. head.

Ont., Toronto—Oct. 9, by C. A. Maguire, chn. Bd. Control, City Hall, furnishing 80 m.g. centrifugal pump, 25 m.g. pumping engine, generator, 16 and 36 in. c.i. pipe, stop valves and special castings. $100,000. R. C. Harris, city engr.

Ark., Texarkana—Texarkana Water Co. making plans additional distribution mains, 14,000 ft. 6 in. mains in Texas side of town and approximately 6½ mi. in Arkansas side. Private plans.

BIDS RECEIVED

N. Y., Buffalo—A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., from Rensselaer Valve Co., 50 Church St., New York City, flanged gate valves, thirty 30 in. $605, thirty 24 in. $365, sixty 20 in. $290, thirty 10 in. $97. Noted Aug. 30.

O., Cleveland—Cuyahoga Co. 37,000 ft. 6-10 in. c.i. mains in Impvt. 43, from J. Lewis, Sewer Contractors Exch., $139,000.

Calif., San Diego—Constructing 1,200,000 gal. steel stand pipe for waterworks system, from Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $68,300. Noted July 26.

CONTRACTS AWARDED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, furnishing and setting fire hydrants and appurtenances on existing mains in Flatbush and Flatlands Sects., here, to Watega Contg. Co., $19,674. Noted Sept. 6.

Kentucky—Chesapeake & Ohio R.R. Co., 823 East Main St., Richmond, Va., water treating plants at Foster and Maysville, to J. E. Nelson & Sons, 3240 South Michigan Ave., Chicago. Est. cost $40,000 each.

O., Bedford—About 5 mi. 6 and 8 in. c.i. and 1 mi. vitr. tile mains, to W. B. Smith, Sewer Contractors Exch., Cleveland, $52,000, Lanese Co., Columbia Bldg., Cleveland, $55,000, and J. B. Lynn, Sewer Contractors Exch., Cleveland, $60,000.

O., Fairview—About 9 mi. 6, 8 and 10 in. c.i. mains, to Hadded & Kariel, 415 Eagle Ave., Cleveland, $65,000; Joseph, Kalill & Jackson, Bangor Bldg., Cleveland, $94,000; Hanna & Co., Leader Bldg., Cleveland, $65,000. Noted Dec. 28.

Mich., Detroit — Water Bd., furnishing and installing 37 m.g. vertical triple expansion crank and flywheel pumping engine, to Worthington Pump & Mchy. Co., 115 Bway., New York City, $247,000. Noted Sept. 6.

Ill., Bartlett — Drilling deep well for waterworks, to W. L. Thorne, Des Plaines, $9 per ft. for first 200 ft., $7 for each additional foot. Noted Aug. 9.

Wis., Black River Falls—For 150,000 gal. steel water tank on 50 ft. steel tower, to Pittsburg-Des Moines Steel Co., 38 South Dearborn St., Chicago. Noted Aug. 9.

Wis., Cedarburg—City will lay 2,000 ft. 4 in. c.i. mains and 2,500 ft. 4-8 in. vitr. sewer, by day labor. $150,000. W. J. Kirchoffer, Dean Bldg., Madison, engr. Noted June 21.

Wis., Madison — City will lay mains in various streets, by day labor. Taking bids on pipe. $15,000. L. A. Smith, supt.

Wis., Mosinee—Village, 30 x 42 ft. brick pumping station, to A. Barry, Mosinee. Engrs. est. $18,000. Noted May 17.

Kan., Emporia—For 460 tons de Lavaud centrifugally cast water pipe, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $26,324; valves and fire hydrants, etc., to Ludlow Valve Mfg. Co., 1416 R. A. Long Bldg., Kansas City, Mo., $6,721. Noted Aug. 9.

Mo., King City—For 39,450 ft. 2-6 in. c.i. mains, 125 ft. water tower on concrete foundation, 75,000 gal., one 14 x 28 ft. well and pumphouse, etc., to Beeson Mchy. Co., 308 Mutual Bldg., Kansas City. Noted July 19.

Tex., Dallas—See "Sewers."

Okla., Maysville—Water distribution system, incl. pump station, tank, tower, 12,000 ft. 4-6 in. c.i. pipe, etc., to Gibson & Mitchell, Pauls Valley, $33,833. Noted May 3.

Que., St. Lambert—Laying 1,960 ft. 30 in. concrete pipe from waterworks to point in St. Lawrence River, to W. L. Bishop Constr. Co. Ltd., 10 Cathcart St., $33,980. Noted Aug. 22.

Ont., Islington—Etobicoke Twp., laying 4½ mi. 6 in. c.i. mains in Earlswood and O'Connor subdivisions, to L. Stacco, 596 Ferry St., Niagara Falls.

Sewers

PROPOSED WORK

N. J., Trenton—Plans storm sewers. $55,000. A. C. Gregory, city engr.

Fla., Daytona—Election Oct. 1, to vote on $100,000 bonds extending sanitary sewers. C. M. Hodges, Daytona, engr. Noted Aug. 2.

Miss., Hollandale—Rejected bids 15,600 ft. 8-10 in. vitr. clay pipe, brick pump house, 3 flush tanks, one centrifugal pump and motor and 47 manholes. Project withdrawn until spring. Bobo & Collier, Clarksdale, engrs. Noted Aug. 9.

Tenn., Cookeville—See "Waterworks."

Tenn., Union City—See "Waterworks."

O., Coalburg—See "Buildings."

Wis., Athens—See "Waterworks."

Kan., Pittsburgh—Making preliminary plans 7,500 ft. storm sewer to drain into Cow Creek, D. D. 2 and 7. $50,000 to $75,000. L. D. Cornelius, city engr.

Kan., Wichita — Making preliminary plans about 30,000 ft. of 12 to 54 in. storm sewer in Cleveland Ave. Dist. $200,000. P. L. Brockway, City Hall, engr.

Mo., Breckenridge—See "Waterworks."

Mo., Cameron—Plans election to vote on $53,860 bonds for sewers and additions. Burns & McDonnell, 401 Interstate Bldg., Kansas City, engrs.

Mo., Jamesport—Soon takes bids sanitary sewers and water system. To exceed $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engrs. Noted Aug. 30 under "Waterworks."

Mo., Maitland—Making plans sanitary sewerage system. To exceed $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engrs.

Mo., Maysville—Defeated $55,000 bonds for sewers and disposal plant. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engrs. Noted Aug. 16.

Mo., Salem—Plans election to vote on bonds for new sanitary sewerage system. To exceed $25,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

Mo., St. Louis—See "Streets and Roads."

Mo., St. Louis—Fogg & Boyle Real Estate Co. soon takes bids 3,500 ft. 12-36 in. vitr. clay sewers in Mars Pl. subdivision. $20,000-$25,000. Dodds Surveyng Co., 717½ Chestnut St., engrs.

Tex., Clarksville — Plans prepared complete disposal plant. $40,000. Koch & Fowler, Central Bank Bldg., Dallas, consult. engrs. Noted Aug. 9.

Tex., Dallas—Making plans 3 mi. 20 in. mains from end of present mains to White Rock reservoir district. To exceed $25,000. E. A. Kingsley, city engr.

Tex., Grandview—Oct. 6, to vote on $31,000 bonds complete new disposal plant. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Tex., Marshall—See "Waterworks."

Nev., Reno—Plans sewers in University Heights and Leetes addition. $25,000. H. Chism, city engr.

Ont., Crystal Beach—Plans prepared for 6,000 ft. sanitary sewers in western section of town, vitr. tile pipe 8 in. up. $25,000. Ross & Scott, Welland, engrs.

Ont., Riverside—Plans storm and sanitary sewers in Ottawa St., 11,000 ft. vitr. tile pipe, 8 in. up. $64,203. R. W. Code, McGregor Bldg., Windsor, engr.

Ont., Sandwich—Plans 10,000 ft. sanitary and storm sewers in Partington Ave., vitr. tile pipe, 8 in. up. $44,843. C. R. McColl, Gas Bldg., Windsor, engr.

Ont., Toronto—Plans 15 mi. vitr. tile, brick and concrete relief sewers. $424,580. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn—Sept. 20, by E. Riegelmann, boro pres., Borough Hall, sewers in Hamilton and Stillwell Aves., West 8th, West 10th, West 12th, West 15th, West 16th, West 19th, West 24th, West 27th, West 28th, West 29th, West 35th and West 36th St.

N. Y., St. George—Sept. 17, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sewers in Bradley and Henschcliff Aves.

Pa., Watsontown — Sept. 17, by Boro Council, 2,780 ft. 8 and 10 in. vitr. sewer in 7th and Ash Sts. E. Moritz, secy.

Sewers (Continued)

W. Va., Bluefield—Oct. 9, at office C. E. Ridley, city mgr., 14 mi. pipe and segment block, etc.; adv. E. N.-R. Sept. 13.

S. C., Greenville—See "Waterworks."

O., Barberton—Sept. 17, by Bd. Control, for Part 7 East Side Lateral sewers. $130,000.

O., Berea — Sept. 17, vitr. intercepting sewer. M. Knowles, Inc., Cleveland and Pittsburgh, engrs.; adv. E. N.-R. Sept. 13. Noted Aug. 9.

Tex., Ft. Worth — F. N. Graves, city purch. agt., receiving bids 105,000 lin.ft. 6-8 in. sewer pipe. D. L. Lewis, city engr.

Colo., Denver—Sept. 18, by Dept. Impvts. & Parks, 10 mi. of 10-72 in. brick, monolite concrete, plain concrete or segmental block sewer in Washington Park Storm Sewer Dist. 3. $285,370. A. K. Vickery, city engr. Noted July 12.

BIDS RECEIVED

O., Euclid—Village, Sept. 4, sewers in East 196th St. and Lake Shore Blvd., Sect. 1, from Amato Constr. Co., Ulmer Bldg., Cleveland, $73,699; Sect. 2, from Graham & Henderson, 1274 West 108th St., Cleveland, $93,027; 1,125 ft. steel submerged outfall pipe, Lake Shore Blvd., from Cleveland Eng. Constr. Co., The Arcade, Cleveland, $67,787; sewage plant incl. 82 x 108 ft. tank building, 35 x 35 ft. laboratory, 24 x 24 ft. disinfecting building and 35 x 35 ft. screen house, from D. Lowensohn, 10825 Fairchild Ave., Cleveland, $345,610, engrs. est. $250,000. Noted Aug. 30.

Mich., Detroit—Dept. Pub. Wks., for 1,251 ft. Liddlesdale Ave. Sewer, Sect. 1, from W. Blanck Co., 827 Ford Bldg., $97,786. Noted Aug. 23.

Wis., Beloit—G. E. Heebink, city engr., 5,770 lin.ft., 24 and 27 in. concrete trunk sewers, 1070 lin.ft. 6 in. vitr. pipe riser, in Shirland Ave., from Brogan & Burns, 700 Dousman St., Green Bay, $50,648 and $11,829. Noted Aug. 24.

Wis., Rhinelander—Sewerage system, 26,502 ft. of 8-20 in. vitr. or concrete pipe, from W. D. Lowell, 1415 South East 8th St., Minneapolis, Minn., $78,981.

Ia., Sioux City—For 1,730 lin.ft. 14 x 39 ft. storm water conduit, for changing channel and water of Perry Creek, 50,000 cu.yd. excav., etc., from C. F. Lythe Constr. Co., 504 Nebraska St., gravel construction broken stone floor $314,055, broken stone construction $315,630. Noted Aug. 23.

Wash., Seattle—Bd. Pub. Wks., 5723 ft. of 8-24 in. pipe sewer in 9th Ave. N., et al., from Fiorito Bros., 3950 6th Ave., Seattle, concrete $29,550, clay $30,378.

Calif., Long Beach—Concrete pipe sewerage system in Sanitary Sewer Pump Dist. 1, Chestnut and State Sts., etc., from L. C. Campbell, 350 Merrick St., Los Angeles, $139,228. Noted Aug. 30.

CONTRACTS AWARDED

N. J., Newark—See "Streets and Roads."

N. J., East Orange—For Elizabeth River Drain, 1 mi. long, mostly 72 in. rein.-con. pipe, to Spiniello Constr. Co., Newark, approximately $95,000. Noted Aug. 23.

N. J., Ridgefield Park — Sludge drying beds at East Side and West Side sewage treatment plants, to Suburban Eng. Co., 15 West 38th St., New York City. Engrs. est. $50,000. Noted July 26.

Md., Baltimore — Constructing Gwinn Falls intercepting sewer, Sect. 3, to Ryan Constr. Co., Real Estate Trust Bldg., Phila., Pa., $92,336. Noted Aug. 9.

W. Va., Spencer — City and State Bd. Control, Charleston, intercepting sewer and branches, here, to Fosco, Domineck Co., South Charleston, (Charleston P. O.), $37,500. Noted July 26.

Fla., Miami—For 15 mi. sanitary sewers and laterals, to J. B. McCrary Eng. Co., 3rd Natl. Bank Bldg., Atlanta, Ga., $176,502. Noted Feb. 1.

La., West Monroe—For 44,750 ft. 8 in., 1,194 ft. 10 in., 804 ft. 12 in., 1,943 ft. 15 in., 2,126 ft. 18 in., 3,711 ft. 21 in., 1,394 ft. 24 in. pipe in various streets, to McIntosh Co., New Orleans, $94,000. Noted July 19.

O., Barberton—Bd. Control, constructing No. 6 East Side Lateral sewer, to E. and W. McShaffrey, Rhodes Ave., Akron, $120,458.

O., Northwest Boulevard (Columbus P. O.)—For 14,152 ft. 6-18 in. sanitary sewers in alleys in Plats 4 and 5, and in Grandview Heights, to Cleveland Trinidad Paving Co., Grand Theatre Bldg., Columbus, $21,858. Noted Aug. 30.

Wis., Beloit — Sewers in Shirland Ave. from Rock River to State St., to Brogan & Burns, Green Bay, 24 in. $50,648, 27 in. $11,829. Engrs. est. $60,000.

Wis., Milwaukee—Sewerage Comn., 508 Market St., piping in power boiler house in connection with sewage disposal plant on Jones Island, to Power Piping Co., 829 Beaver St., Pittsburgh, $47,300.

Kan., Lyons—Sanitary sewerage system, to C. H. Everett, Hutchinson, 54,775 ft. 8-15 in. vitr. clay pipe $0.40-$0.95, sewage disposal plant $25,000, etc., total $91,453. Noted Aug. 23.

Kan., Smith Center—See "Streets & Roads."

Mo., Marshall—For 11,811 ft. 6 and 8 in. vitr. clay sewers in Montague-Franklin Sunset Hill Dist. Sanitary Sub-Dist. 13 of Dist. 2, to R. Langston, 730 South Fort St., Springfield, $21,671. Noted June 14.

Mo., University (St. Louis P. O.)—C. C. Willmore Corp., Boatmens Bank Bldg., St. Louis, 12,000 ft. 12-36 in. vitr. clay sewer in University Park, here, to Grant & Meinert, 4219 Botanical Ave., St. Louis, $50,000.

Ark., Forrest City—Laying 13,000 ft. sewer in Forrest City Special Impvt. Dist., to J. B. McCrary Eng. Co., Atlanta, Ga. $22,000.

Ark., McGehee—Sanitary sewers, pumping stations and disposal works, in Sanitary Sewer Dist. 1, to Merkle Mchy. Co., 1733 Walnut St., Kansas City, Mo., $85,306. Noted July 26.

Ark., Piggott—For 15,000 ft. sewer, to Merkle Mchy. Co., 1733 Walnut St., Kansas City, Mo., $38,475; 100 hp. and 75 hp. oil burning engines to Fairbanks-Morse Co., 1304 Liberty St., Kansas City, Kan., $20,629; power plant, to E. E. Porterfield and E. C. Johnson, Piggott, $5,235.

Tex., Dallas—Sewer and water main extensions with paving in Preston Pl., (improvements to 68 lots), to Klein Bros. and Lynch Miller Co., Deer Bldg., $40,000. Engrs. est. $30,000. Owner's name withheld.

Tex., Ft. Worth—Labor for 105,000 ft. 6 and 8 in. sanitary sewer in Polytechnic Heights, Sycamore Heights and Tandys addition, to Janes Constr. Co., Southwestern Life Bldg., Dallas, $91,904. Noted Aug. 23.

Okla., Sand Springs—For 6 mi. sanitary sewers in Dist. 5, incl. 6 in. concrete, 8 in. vitr. clay and 10 in. tile pipe, to Comstock-Smedley, 432 Iowa Bldg., Tulsa, $116,000.

Waste Disposal

PROPOSED WORK

Tex., Austin—Oct. 15, to vote on $50,000 bonds for garbage incinerator. G. E. Leonard, city engr. Noted July 12.

BIDS DESIRED

Ind., Indianapolis—Sept. 25, by Bd. Sanitary Comrs., Room 208 City Hall, garbage reduction plant building, and receiving station. J. A. Craven, pres.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Sept. 6, construction and completion building and runway, furnaces, appurtenances and chimney of Bergen Landing Destructor, 4th Ward, from Hudson City Eng. & Constr. Corp., 25 Hunterspoint Ave., $289,000. Noted Aug. 30.

N. Y., New York—Dept. Plant & Structures, Municipal Bldg., installing furnaces, flues, chimneys and appurtenances for destructor plant, 139th St. and Harlem River, for Dept. Street Cleaning, from C. O. Bartlett & Snow Co., 1040 Federal St., Cleveland, O., $243,000.

O., Lakewood—Garbage and rubbish incinerator plant, 50 tons per day capacity, from C. F. Walters, 136 West 82nd St., New York City, $46,930. Noted Aug. 16.

Bridges

PROPOSED WORK

N. Y., Buffalo—See "Railways."

N. J., New Brunswick—State Hy. Comn., Trenton, plans to reconstruct steel and concrete bridge over Raritan River between here and Highland Park, Middlesex Co., $300,000. Strauss-Bascule Co., engrs. J. L. Vogel, 772 Broad St., Newark, state bridge engr.

Tennessee—State Hy. Dept., Nashville, soon takes bids concrete bridge over Roaring River. J. G. Creveling, comr.

Ky., Louisville—City and Jefferson Co. plan election to vote on $6,000,000 bonds for bridge over Ohio River, here. Fay, Spofford & Thorndike, 200 Devonshire St., Boston, Mass., engrs.

O., Akron—See "Miscellaneous."

O., Willow (Brooklyn, P. O.)—Cuyahoga Co. (Cleveland) plans concrete bridge over Cuyahoga River, here. $750,000. F. R. Lander, Court House, Cleveland, engr.

Ind., Vincennes—States of Indiana and Illinois plan steel truss bridge over Wabash River, here. $300,000. G. F. Burch, Springfield, Ill., bridge engr.

Wis., Madison—Plans rein.-con. bridge over Yahara River, on Jenifer St., about 60 ft. long, 50 ft. roadway, two 8.6 ft. walks, $25,000. H. C. Buser, clk.

Tex., Houston—Plans prepared 240 ft. bridge 70 ft. wide, concrete floor, on Smith St., Buffalo Bayou, concrete or steel. J. C. McVea, city engr.

Quebec—Canadian Pacific Ry., Windsor St. Sta., Montreal, plans 100 ft. through truss span over Black River, two 78 ft. and two 53 ft. deck plate girder spans, one 200 ft. through truss span over North Nation River, on Lachute subdivision. F. B. Motley, engr. of bridges.

Ont., Galt — Plans to vote on $35,000 bonds for new bridge. D. T. Black, city engr.

BIDS DESIRED

N. J., Freehold—Sept. 19, by Bd. Freeholders Monmouth Co., constructing Bridge E-14, Oceanport, also Bridge O-17, on West Long Branch Interlaken Rd. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E.N.-R. Sept. 13.

Pa., Johnstown—Oct. 2, at office M. L. Masterton, supt. streets and public improvements, City Hall, constructing Napoleon St. Bridge and Coopersdale Bridge, J. E. Greiner & Co., Pittsburgh, consult. engrs.; adv. E.N.-R. Sept. 13.

Pa., York—Sept. 24, at office F. S. Bartenschlager, controller York Co., constructing bridges; adv. E. N.-R. Sept. 13.

Fla., Clearwater—Oct. 16 by B. D. Comrs, Pinellas Co., bridge and bulkhead. C. E. Burleson, co. engr.; adv. E. N.-R. Sept. 13. Noted July 26.

Louisiana—Oct. 2, by State Hy. Comn., Reymond Bldg., Baton Rouge, removing old timber bridges and constructing 34 rein.-con. box culverts varying in size from 3 x 4 ft. to 8 x 45 ft., also one 50 ft. steel plate girder span and one 60 ft. steel truss span on rein.-con. abutments, on State Project 385, Port Allen-New Roads, Port Allen-Plaquemine and Port Allen-Rosedale Highways, West Baton Rouge Parish, incl. 1,800 cu.yd. concrete, 145,000 lb. reinforcing, 72,000 lb. structural steel, etc. J. M. Fourmy, ch. engr.

Michigan—Sept. 25, by State Hy. Dept., Lansing, three 50 ft. concrete girder bridges, No. 020604, 020605 and 020606, Alger Co. F. F. Rogers, state comr. Noted Sept. 6.

Wis., Milwaukee—Sept. 20, by Park Bd., concrete piling for new viaduct on Mason St., terraces and peristyle to be erected. Cost complete $225,000. Clas Shepherd & Clas, 445 Milwaukee St., engrs.

Minnesota—Sept. 26, by State Hy. Dept., St. Paul, Bridge 3458 at Beaver Bay, 300 ft. steel arch span, and Bridge 3583 at Split Rock, 80 ft. deck truss span, both in Lake Co., State Project 1-01, Federal Aid Project 282. $25,000. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Wash., Omak—Sept. 18, by Comrs. Okanogan Co., (Okanogan) 408 ft. concrete bridge, also removing present structure, near here. Former bids rejected. D. C. Warfel, Okanogan, engr. Noted July 5.

BIDS RECEIVED

New Jersey—Monmouth Co. (Freehold) steel Bridge R-1, Maple Pl., Keyport, also Bridge U-11 Imlaystown, from R. J. Mansfield, 53 Park Pl., New York City, $22,492 and $62,527 respectively. Noted Aug. 23.

North Carolina — State Hy. Dept., Raleigh, rein.-con. bridges and culverts on State Project 495, Warren Co., from Dameron & Sparling, Nashville, $25,982; State Project 592, Rockingham Co., from J. L. Brinkley, Thomasville, $29,018; State Project 641, Iredell Co., from Hanford Bros., Burlington, $63,485; State Project 679, Scotland Co., from E. T. Gwathmey, Norfolk, Va., $26,886; State Project 745, Forsyth Co., from C. A. Helig, Winston-Salem, $31,379. Noted Aug. 16.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, Aug. 29, from Frazier-Davis Constr. Co., Arcade Bldg., St. Louis, Mo., 2 concrete slabs and 1 concrete culvert, Route 14, Sect. 7-B Franklin-Hamilton Counties, and Route 14, Sect. 8, Hamilton Co., Combination E, $64,800; from V. C. O'Connor, Newton, 4 concrete girders, Route 33, Sect. 4-D, Jasper Co., $53,579.

Bridges (Continued)

less 1/2 if personal bond is accepted. Noted Aug. 9.

Minnesota — State Hy. Dept., St. Paul, Sept. 5, Bridge 4090 on State Project 3-39, Federal Aid Project 327, over Clearwater River, Wabasha Co., five 75 ft. truss spans, from Illinois Steel Bridge Co., Gilfillan Bldg., St. Paul, $31,949; Bridge 4138 on State Project 59-23, Federal Aid Project 335, over Zumbro River, Rochester, Olmsted Co., three 65 ft. low truss spans, from Independent Bridge Co., 1101 Metropolitan Life Bldg., Minneapolis, $27,770. Noted Aug. 23.

CONTRACTS AWARDED

South Carolina—State Hy. Dept., Columbia, bridges over Lynches River, Federal Aid Project 180 B, Florence Co., rock asphalt paving, steel superstructures, hardware treated and untreated piling, etc., to Palmer & Conrad, Florence, $46,150. Noted Aug. 30.

S. C., Charleston—Charleston Co., 1,733 ft. concrete bridge over Ashley River, 43 ft. wide, 2 steel bascules, to be constructed instead of draw, opening for vessels 138 ft. wide, to Sanford & Brooks, 24 Commerce St., Baltimore, Md., $1,067,466. Noted Aug. 23.

S. C. Marion — Comrs. Marion Co., 4 treated timber bridges over Lumber River between Marion and Horry Counties, Federal Aid Project 219, to L. A. Chitwood, Columbia, $20,434. Noted Aug. 2.

Ohio—See "Streets and Roads."

Michigan—State Hy. Dept., Lansing, 60 ft. concrete arch, Bridge 580,902 near Monroe, 394 cu.yd. rein.-con., 478 cu.yd. concrete, 28,550 lb. reinforcing to E. C. Nolan & Son, 1497 Collingwood Ave., Detroit, $23,957, plus state cement $2,000. Noted Sept. 6 under "Streets and Roads."

South Dakota—State Hy. Dept., Pierre, concrete viaducts on **(F. A. P. 100 Pennington means Federal Aid Project 100 Pennington Co.) F. A. P. 100 Pennington**, to Youngberg Constr. Co., Aberdeen, $16,112; **F. A. P. 124 Douglas**, to D. D. Bidwell, Egan, $16,421; **F. A. P. 141 Hughes**, to C. J. Wheelock, Pierre, $22,798; **F. A. P. 142 Brown** and **F. A. P. 143 Marshall**, to M. A. Stump, Mobridge, $5,775 and $4,553 respectively. Noted Aug. 16 and 23.

Kan., Osage—See "Dams."

Ark., Pine Bluff — See "Streets and Roads."

California—Amer. Toll Bridge Co., New York, (O. Klatt, c/o Golden Gate Ferry Co., foot Hyde St., San Francisco, secy.), bridge over Carquinez Straits, from Solano to Contra Costa Counties, 11,731 tons structural steel, 2,510 cu.yd. concrete in floors, 362,000 lb. reinforcing steel in floor, 27,300 cu.yd. concrete in piers, 1,776,000 lb reinforcing steel in piers, to Duncanson-Harrelson, Chronicle Bldg., San Francisco, $4,500,000.

Calif., Ventura—Supervs. Ventura Co. repairing Montalvo Bridge, 263,874 ft. timber in floor system, 19,620 ft. timber in railing, 11,200 ft. new timber in truss members, 29,696 sq.ft. pavement, to De Waard & Cobham, Granger Bldg., San Diego, $35,948. Noted Aug. 23.

Ont., Chatham — Kent Co., 2 concrete abutments and 2 concrete piers in connection with Prairie siding swing bridge, to Birmingham & Son, Kingston, $36,450.

Dams

PROPOSED WORK

Tenn., Lawrenceburg — Soon takes bids hydro-electric dam for municipal light plant. $80,000. Freeland, Roberts & Co., Independent Life Bldg., Nashville, engrs.

Ark., Winslow—T. B. Harris, Winslow, and L. Kelley, c/o Kelley Trust Co., 9 North 7th St., Ft. Smith, and others, making preliminary plans concrete dam, 15 ft. high, in gorge between here and Schaberg. $225,000. Engineer not announced.

Tex., San Antonio—Plans to construct retention dam or straighten river. $4,000,000. D. D. Harrigan, Moore Bldg., engr.

BIDS DESIRED

Wis., Iron River—Iron River Water & Light Co. taking bids rein.-con. and earth dam, 5 ft. base, 1 ft. top. $25,000. T. F. MacMillen, pres. Noted Aug. 23.

CONTRACTS AWARDED

Wis., Waubeka, (Fredonia P. O.)—E. K. Klessig will build rein.-con. and steel dam by day labor. J. Donohue Co., Sheboygan, Wis., engr.

Kan., Osage — Addition to earth dam, spillways, grading road and constructing new concrete bridges, to F. Schofner, Atchinson, $46,246.

Ont., Thessalon—Hope Lumber Co. will build timber dams here by day labor. $60,000.

Railways

PROPOSED WORK

New York—New York Central R.R., Exchange St. Sta., Buffalo, plans 2 mi. double track from Gardenville Yard to Cheektowaga, also subway under Ellicott Rd. and bridge above grade of French Rd., Buffalo and Depew Blvd., and Depew & Lancaster R.R., $550,000; 2½ mi. double track beginning at main line connection in Depew and connecting with West Shore R.R. at Cheektowaga, $700,000. G. W. Kittredge, Grand Central Terminal, New York City, ch. engr.

California — Southern Pacific R.R. Co., 65 Market St., San Francisco, had plans prepared industrial trackage on Beale St., San Francisco. $122,000. G. W. Boschke, ch. engr.

Ontario—Hydro Electric Comn., London, plans to extend street railway in Windsor. $250,000. A. Beck, London, chn. Work under supervision of T. U. Fairlie, engr., Hydro Office, Windsor.

Ontario—Temiskaming & Northern Ontario Ry., North Bay, plans single track branch line from point near Cobalt into Lorrain Silver camp, incl. 10-15 mi. 80 lb. rails. $300,000 to $500,000. S. B. Clement, North Bay, ch. engr.

Ontario — York Twp., Toronto, having estimates made extending 5 street railway lines from city of Toronto into township, incl. 12 mi. double track, electric poles, etc. $2,173,265. F. B. Goldike, 40 Jarvis St., Toronto, engr.

BIDS DESIRED

California—Oct. 3, by Bd. Pub. Wks. of San Francisco City and San Francisco Co., furnishing and delivering track materials for municipal railway under Contr. 136, 370 gross tons rail, 930 pairs joint plates, 30 pairs joint plates, with bolts and nuts, 6,100 lock washers, 14,600 tie plates, 1,500 anti-crupers, frogs, switches, etc. M. M. O'-Shaughnessy, city engr.

CONTRACTS AWARDED

Illinois—Chicago, Milwaukee & St. Paul R.R. Co., Ry. Exch. Bldg., Chicago, grading 23 mi. for second track between Talmadge and Webster, on Terre Haute Div., to Peterson, Shirley & Gunther Co., Woodman of World Bldg., Omaha, Neb. Engrs. est. $150,000.

Oregon—Southern Pacific Co., 65 Market St., San Francisco, Calif., grading 31 mi. 1st section, connecting Eugene and Klamath Falls, to J. Hampshire, Grants Pass.

Excavation, Drainage Irrigation

PROPOSED WORK

Fla., Daytona—Election Oct. 1, to vote on $260,000 bonds constructing park by dredging and filling in east of Beach St. and west of Channel of Halifax River. C. M. Hodges, Daytona, engr. Noted Aug. 2.

Wis., Green Bay — Brown Co. Farm Drainage Bd., 605 Cherry St., completing plans several miles open ditching and tiling to drain about 3,500 acres near Green Bay. $25,000. L. M. Shindler, 721 Clark St, Appleton, engr.

BIDS DESIRED

N. Y., Riverhead—Sept. 27, by Salt Water Bays Comn. at office of State Engineer and Surveyor, Telephone Bldg., Albany, excavating channel connecting Moriches, Quantuck, Shinnecock and Peconic Bays, Suffolk Co. D. B. LaDu, chn.; adv. E. N.-R. Sept. 13.

Minn., Granite Falls—Sept. 19, by G. H. Wilson, aud. Yellow Medicine Co., (Granite Falls), and R. D. Houdersheldt, aud. Lyon Co. (Marshall), Judicial Ditch 10. Sects. 1 to 6 inclusive, 1,581,407 cu.yd. excav., etc., $180,280; Sects. 7 to 10 inclusive, 379,991 ft. 6-28 in. tile, etc., $202,214. E. W. Youngdale, Granite Falls, engr.

Mo., Benton—Oct. 1, by Scott Co., 21,500 cu.yd. earth excav., 4,000 cu.yd. earth fill, etc., along Main Ditch of D. D. 10. Swank-Tanner Eng. Co., Charleston, engrs.; adv. E. N.-R. Sept. 13.

Mo., Kirksville — Sept. 15, by C. E. Jacoby Eng. Co., engrs., Shukert Bldg., Kansas City, 209,150 cu.yd. main ditch, 20 acres clearing and 3,500 acres draining, here, for Brashear D. D.

CONTRACTS AWARDED

Miss., Cleveland—Comrs. Northern D. D., 16 mi. lateral ditches near Shelby, involving 269,922 cu.yd. ditches varying from 3 to 10 ft. bottom width an from 1.5 to 13.4 ft. in depth, to Miller & Harris Bros., Louisville, Ky., $0.14 and $0.16.

Wis., Green Bay—Farm Drainage Dist. 5, 4½ mi. 6-8 in. tile outlet drain in Lawrence Twp., to A. Tomasum, 257 Park Ave., Fond Du Lac. Noted Aug. 16.

Ont., Port Arthur—Dominion of Canada, Dept. Pub. Wks., Parliament Bldgs., Ottawa, hydraulic dredging in harbor here, to Canadian Dredging Co., Midland, $246,920.

Streets and Roads

PROPOSED WORK

New York—F. S. Greene, comr. highways, Albany, received no bids Aug. 31, constructing and reconstructing 0.64 mi. Repair Contr. 3062, Dutchess Co., $38,438. Noted Aug. 23.

N. J., Asbury Park—Plans resurfacing 2 mi. Cookman Ave. and Kingsley St. $167,000. N. Rogers, Asbury Park, engr.

Pennsylvania—Election in November to vote on $50,000,000 bond issue for road work.

Pa., Erie—Plans to pave 29th and 36th Sts., brick. $47,600. F. G. Lynch, city engr.

Virginia—Nov. 6, to vote on $1,200,000 bonds for new road work. H. G. Shirley, state highway comr.

Fla., Dade City—Pasco Co. election Sept. 18, to vote on $125,000 bonds surfacing with asphalt on rock Rd. 1; $50,000 paving with rock, marl or clay Rd. 2, $25,000 for Rds. 3, 4, 5 and 6, $50,000 for Rd. 7; $25,000 reconstructing with asphalt on rock Rd. 8. J. A. Burnside, clk.

Fla., Daytona—Election Oct. 1, to vote on $200,000 bonds constructing Myrtle Lane, Ivey Lane, et al. C. M. Hodges, Daytona, engr. Noted Aug. 2.

Tennessee — Dept. Highways and Pub. Wks., Nashville, plans to have surveys made 29 mi. Dixie Highway from Jellico to La Follette, Campbell Co., asphalt on concrete. J. G. Creveling, comr.

Tenn., Benton—Polk Co. plans to construct various roads. $25,000.

Kentucky—State Hy. Dept., Frankfort, plans surfacing 2.489 mi. Barboursville Rd., 18 ft., Federal Aid Project 61 B, Knox Co. J. S. Boggs, state highway engr.

Ky., Louisville — Plans reconstructing portions 3rd and 4th Sts., 40 ft. $25,000.

Ky., Paintsville—Plans 3,300 lin.ft. curb and 2,950 sq.yd. concrete or asphalt paving. $25,000. C. A. Temple, city engr.

Ky., Pineville—Bell Co. plans constructing roads near Harlan. $65,000.

Ohio—Dept. Highways and Pub. Wks., Columbus, rejected bids Aug. 24, grading, bridging and paving 2.632 mi. Sect. "I" Niles-Ashtabula Rd., Trumbull Co., rein.-con., $107,481. Noted Aug. 30.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids latter part of September, grading, laying sidewalks and paving 70,100 sq.yd. Glendale Ave., Brown and North Main Sts., vitr. brick or asphalt, $575,000. E. A. Kemmler, Delaware Bldg., engr.

O., Akron—Summit Co. plans improving 1.7 mi. Cuyahoga Falls-Kent Rd., 18 ft.; 2.53 mi. Twinsburg-Solon Rd. and 1.9 mi. Akron-Massillon Rd., both 20 ft. J. Weaver, County Bldg., engr.

O., Canton—Soon takes bids widening and resurfacing Cleveland Ave., asphalt. $30,000. W. E. Sarver, City Bldg., engr.

O., Canton—Stark Co. soon takes bids resurfacing 1 mi. Alliance-Minerva Rd., 20 ft., $26,000; improving 1 mi. Canton-Waynesburg Rd., 18 ft., $27,500. A. M. Wise, Court House, engr.

O., Lisbon—Columbiana Co. plans grading Canton Hill, also filling in ravine spanned by old Canton bridge. About $100,000. L. Kirk, co. engr.

O., Steubenville—Jefferson Co. plans resurfacing 3 mi. Hammondsville Hill Rd., 18 ft., bituminous macadam. $71,000. State appropriated $35,000 toward cost.

Michigan—State Hy. Dept., Lansing, rejected bids grading and gravel surfacing 6.88 mi. State Trunk Line 66-17, Sects. A and B, Kalkaska Co., and 5.977 mi. State Trunk Line Rd. 25-2, Sect. A, Luce Co. Noted July 26 and Aug. 30.

Mich., Highland Park (Detroit P. O.)—Plans prepared improving 3rd Ave. and Kings Highway, 13,444 cu.yd. excav. and 31,541 sq.yd. rein.-con. or sheet asphalt. L. C. Whitsit, 28 Gerald Ave., engr.

Streets and Roads (Continued)

Mich., Royal Oak—Plans prepared paving 16,000 sq.yd. Farnum and Gardenia Sts., 7 in. vibrolithic or rein.-con. $75,000. P. H. Beauvais, city mgr.

Kan., Anthony—Harper Co. soon takes bids grading and sand clay surfacing 9.987 mi. Attica Rd., 18 ft., Federal Aid Project 154, Sect. A. Eidemann & Marshall, Topeka, engrs.

Kan., Washington—Washington Co. making plans grading 11.5 mi. road. E. C. L. Wagner, 609 Kemper Bldg., Kansas City, Mo., engr.

Kan., Wichita—Sedgwick Co. soon takes bids grading and surfacing 1.980 mi. Valley Center Extension, 18 ft. M. Roseberry, co. engr. Noted Sept. 6.

S. D., Elk Point — Union Co. plans to gravel surface 12.5 mi. Federal Aid Project 153, $62,150. R. E. Lyle, co. aud.

N. D., Dickinson—Stark Co. soon takes bids gravel surfacing 6.6 mi. Federal Aid Project 14, $25,000.

Mo., Kirksville—Making preliminary plans paving Missouri St., brick on concrete; South Main, East Jefferson, 1st and Marion Sts., concrete. To exceed $50,000. B. Crabtree, city engr.

Mo., St. Louis—Fogg & Boyle Real Estate Co. making preliminary plans glading, concrete curbing and guttering and asphalt paving 11,500 sq.yd. in Mars Pl. subdivision. $40,000. Dodds Surveying Co., 717½ Chestnut St., engrs.

Mo., St. Louis—J. A. Hodges, 3127 South Grand Blvd., making preliminary plans grading, laying sidewalks and asphalt paving 10,600 sq.yd. Loughborough, Field and Sharp Aves., etc., in subdivision opposite Carondelet Park South. $32,500-$35,000; soon takes bids 3,000 ft. 12-36 in. vitr. clay sewers in above streets, $18,000-$20,000. Private plans.

Mo., University (St. Louis P. O.)—Soon takes bids improving University Park Subdivision, here, 17,700 lin.ft. concrete curbing and guttering, 100,000 sq.ft. sidewalks, 32,000 sq.yd. asphaltic concrete paving, etc. $50,000-$60,000. Pitzman Eng. & Survey Co., 615 Chestnut St., St. Louis, engrs.

Mo., Webb City — Making preliminary plans paving 8,000 ft. streets between double tracks of Southwest Missouri R.R., brick or concrete. $40,000.

Ark., Camden — O. E. Westfall, secy., takes bids about Sept. 15, grading, surfacing, etc., 5,000 ft. in Dist. 5, 8,000 cu.yd. grading, 12,900 sq.yd. Topeka mix surface on 5 in. concrete, 8,566 sq.yd. 6 in. concrete sidewalks, etc. Humphreys, Alexander & Humphreys, Camden, engrs.

Ark., Morrillton—Soon takes bids grading and paving 11,000 sq.yd. in Dist. 4, 2 in. asphalt on 5 in. concrete. $42,500.

Tex., Abilene—Taylor Co. plans election soon to vote on $350,000 bonds hard surfacing highways. W. A. Rinney, Abilene, engr.

Tex., Bay City—Matagorda Co. making plans graveling 5 mi. Highway 12 C, 18 ft. $35,000. E. N. Gustafson, Angleton, engr.

Tex., Carthage—Panola Co. making plans grading and gravel surfacing 11.5 mi. State Highway 8, Rd. Dist. 1. $169,540. Titus & Dillon, Center, engrs.

Tex., Center—Shelby Co. making plans grading and gravel surfacing 13 mi. State Highway 35, Tenaha Dist., 16 ft. $150,000. Titus & Dillon, Center, engrs.

Tex., Coleman — Coleman Co. election Sept. 22, to vote on $200,000 bonds 21.08 mi. highway improvement in Rd. Dist. 4, from Goldsboro to Taylor Co. line, 18 ft. Total cost $400,000. Federal Government and State will appropriate toward cost.

Tex., Corsicana—Navarro Co. making plans rebuilding Mildred Rd. from here to Mildred oil field. $30,000. McClendon & Purnell, Corsicana, engrs.

Tex., Decatur—Wise Co. making plans grading and gravel surfacing 11.5 mi. State Highway 39, from point south of Chico north to Jack Co. line. $127,000. H. R. Smith, co. engr.

Tex., Ennis — Plans permanent paving various streets. $60,000 bonds voted. H. McCandless, city engr. Noted June 14.

Tex., Galveston—Making plans paving 2 mi. 14th and 35th Sts. from Bay to Gulf Sts., rock asphalt on shell base. $50,000. C. A. Holt, city engr.

Tex., Galveston — Making plans brick, concrete or rock asphalt paving ¾ mi. 25th St. from Cnurch to Seawall Sts., 40 ft. Cost to exceed $25,000. C. A. Holt, Jr., city engr.

Tex., Gonzales—Gonzales Co. and State plan crushed rock topping on 16 mi. road from Glacier to Gulf Highway, 18 ft. $150,000. Election soon to vote on bonds. J. G. Ibry, co. engr.

Tex., Laredo—Webb Co. plans bituminous topping 3 highways radiating from here, 32 mi. long, 18 ft. $500,000. State and Federal Government will appropriate toward cost. S. F. Knowlton, Laredo, engr.

Tex., Marshall—Election Oct. 9, to vote on $50,000 and $10,000 bonds for paving and sidewalks. Elrod Eng. Co., 3206 Elm St., Dallas, engrs.

Tex., Pearsall—Frio Co. election Oct. 18, to vote on $300,000 bonds highway improvement, Precinct 4, from Frio Co. line on west to Dilley, connecting with Meridian Highway.

Tex., Quanah—Making plans paving 20 blocks, 40 ft., various types, chiefly brick. Elrod Eng. Co., 3206 Elm St. Dallas, engrs.

Tex., San Antonio—Bexar Co. making plans improving 8.2 mi. Castroville Rd., 18 ft., asphalt. $148,000. A. C. Pancoast, 102 Turner St., engr.

Tex., Texarkana — Making plans paving 9 blocks Beech St. from 15th to 24th Sts., 40 ft., 3 in. vertical fibre brick on 5 in. concrete. O. Yenglin, Texarkana, engr.

Tex., Tyler—Smith Co. making plans concrete paving, etc., 3 mi. Arp Rd., 18 ft. $100,000. D. K. Caldwell, co. engr.

Tex., Waxahachie—Ellis Co. had plans prepared gravel surfacing, etc., 3 mi. Highway 14 through Palmer, 18 ft. $30,000. W. S. Spalding, Waxahachie, engr.

Okla., Blackwell—Having plans prepared grading and paving 1st, 7th, Oklahoma, McKinley, Dewey and Kansas Sts., 20,000 sq.yd. vertical fibre brick, 11,500 lin.ft. curbing, 11,500 lin.ft. gutter, etc. $98,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Wewoka—Having plans prepared grading and paving 10 blocks. To exceed $100,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colorado — State Hy. Dept., Denver, rejected bids gravel surfacing 2.911 mi. road between Hesperus and Durango, 24 ft., Federal Aid Project 71 C, La Plata Co. L. D. Blauvelt, State Office Bldg., highway engr. Noted Aug. 9.

Wash., Seattle—Plans improving Avalon Way, incl. Fauntleroy Ave., Alaska St., etc. Plans incl. paving 18 ft. strip from foot of Avalon Way to 36th St., 7 in. concrete; 18 ft. roadways on Alaska St. and Fauntleroy Ave., and 25 ft. paving on Barton St. $250,000. J. D. Blackwell, city engr.

Calif., Bakersfield—Plans paving Nile St. east of Baker St. To exceed $90,000. W. D. Clark, city engr.

Calif., Colfax—Plans to vote on $25,000 bonds paving various streets, probably concrete.

Calif., Fresno—City Council received no bids grading, guttering, curbing, sidewalks and paving McKinley Ave. Noted Aug. 23.

Calif., Huntington Park (branch P. O., Los Angeles)—Making plans paving 120,000 sq.ft. Albany St., 4 and 5 in. asphaltic concrete. H. McCurdy, Pacific Electric Bldg., Los Angeles, engr.

Calif., Los Angeles—Had plans prepared improving Vernon Ave., 166,477 sq.ft. 6 in. concrete, 18,410 sq.ft. walks, etc.; Liberty St., 15,396 sq.ft. oil and roll, 4,538 sq.ft. walks, 2,321 sq.ft. gutter, etc.

Calif., Modesto—Stanislaus Co. having plans prepared paving with concrete or asphalt 2.5 mi. Dist. 4, 3.5 mi. Dist. 6; paving with black base 0.625 mi. in Dist. 1; surfacing and constructing shoulders 2 mi. Dist. 5. J. H. Hoskins, co. surv.

Calif., San Leandro — Having plans prepared extending Oakes Blvd. to Foothill Blvd.; cutting street through between Oakes Blvd. and Haas Ave. to boulevard extending Haas Ave. to banks of San Leandro Creek and extending Dowling from Dutton Ave. across creek to Estudillo Ave. $200,000. R. H. Goowding, city engr.

Calif., Santa Barbara — Plans curbing, guttering, sewers and paving 95 blocks. G. D. Morrison, city engr.

Calif., Santa Cruz—Had plans prepared improving Younglove Ave., 50,017 sq.ft. 6½ in. asphalt macadam, etc. H. Williams, city engr.

Calif., San Diego—Common Council had plans prepared improving Ivy, 31st and Fern Sts., 85,513 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete, 2,256 sq.ft. concrete sidewalks, etc. F. A. Rhodes, city engr.

Calif., Santa Rosa—Sonoma Co. plans 18 mi. permanent highway from Sebastopol to Monte Rio via Guerneville. To exceed $700,000.

Ontario—Dept. Provincial Highways Toronto, plans paving 2½ mi. Ottawa-Prescott Highway, 35,000 sq.yd. waterbound macadam or bituminous macadam, $100,000. G. Hogarth, 110 University Ave., Toronto, ch. engr.

Ont., Toronto—Plans 20,000 sq.yd. asphalt and brick block pavement and 10,000 lin.ft. concrete curbing and guttering, on Woodbine Ave. $88,000. R. C. Harris, city engr.

Ont., Toronto—Having plans prepared widening 2,000 ft. Bloor St. from 66 to 86 ft., asphalt. $445,000. R. C. Harris, city engr.

Ont., Toronto—York Twp., 40 Jarvis St., soon takes bids bituminous concrete pavement on Killarney Rd. $4,190; grading on Durant, Ralph and Weatherall Aves. $5,130; concrete sidewalks on Kirknewton Rd., Barker, Beresford, Clovelly, Dundurn, 1st, Holmesdale, Muriel, Ralph, Thelma and Weatherall Aves. $33,095. F. B. Goldike, 40 Jarvis St., engr.

BIDS DESIRED

Massachusetts—Sept. 18, by W. F. Williams, state highway comr., Boston, 17,441 ft. highway, 18-30 ft., through North Attleboro, bituminous macadam and concrete. $250,000.

Conn., Norwalk—Sept. 22, by C. L. Barton, mayor, and Bd. of Councilmen, at Room 3 City Hall, concrete and brick pavement. D. B. Eula, engr. in charge; adv. E. N.-R. Sept. 13.

N. Y., Brooklyn—Sept. 20, by E. Riegelmann., Boro pres., Borough Hall, repaving with permanent asphalt on 6 in. concrete roadways of Calyer, Fulton, Hinsdale and 86th Sts., Park Pl., and strip 20 ft. wide in center of roadway of 73rd St. from Narrows Ave. to Colonial Rd. and from point 350 ft. east of Colonial Rd. to Ridge Blvd., repaving with granite block grade 1, strip 20 ft. wide in center of roadway of 73rd St. from Colonial Rd. to point 350 ft. east; grading, curbing and flagging West 8th St.

N. Y., St George — Sept. 17, by J. A. Lynch, pres. Richmond Boro, Borough Hall, paving with bituminous concrete on concrete roadways of Grove and Castleton Aves., and Clove Rd.; laying concrete curb and gutter, 4 ft. wide, on south side Lincoln Ave.

N. Y., St. George—Sept. 19, by J. A. Lynch, pres. Richmond Boro, Borough Hall, grading, laying concrete curb and vitr. brick gutter, laying concrete sidewalks, etc., Duer Lane.

N. Y., Warsaw—Sept. 20 by Letchworth Park Com. of American Scenic and Historic Preservation Society, Wyoming Co. National Bank, for highway in Letchworth Park. W. J. Humphrey, chn.; adv. E. N.-R. Sept. 13.

N. J., Trenton—Sept. 18, by Bd. Freeholders Mercer Co., asphalt paving 9,600 sq.yd. Parkway Ave., 2,300 lin.ft. concrete curb, 6,000 sq.ft. concrete gutter, $43,000; 5,230 sq.yd. Hamilton Ave., 1,050 lin.ft. concrete curb, etc. $25,000. W. F. Harris, co. engr.

N. C., Mt. Gilead—Sept. 20, by Bd City Comrs., 17,500 sq.yd. pavement, 10,000 ft. curb and gutter, 3,000 sq.yd. concrete sidewalks, etc. $60,000. L. V. Edwards, Winston-Salem, engr.

Fla., Clearwater—Oct. 16, by B. Comrs. Pinellas Co., paving Rds. 1, 2, 3, 4, 6, 7 and 8, vitr. brick with bituminous filler, asphalt block with asphalt filler, sheet asphalt or bituminous macadam penetration method, all on compacted lime rock base with concrete curb or portland cement concrete; Rd. 5, relaid vitr. brick with bituminous filler and double bituminous surface treated lime rock shoulders. C. E. Burleson, co. engr.; adv. E. N.-R. Sept. 13. Noted July 26.

Louisiana—Sept. 25, by State Hy. Dept., Reymond Bldg., Baton Rouge, grading 15.03 mi. State Project 90, New Roads-Simmesport Torras Highway, and graveling 4.54 mi. same project. Point Coupee Parish. J. M. Fourmy, ch. engr.

Louisiana—Sept. 20, by State Hy. Comm., Reymond Bldg., Baton Rouge, 2.224 mi. State Project 378, Abbeville-Jennings Highway, Cameron Parish, also furnishing 2,015 cu.yd. washed gravel or 2,687 cu.yd. clam shells. J. M. Fourmy, ch. engr.

Streets and Roads (Continued)

Louisiana—Sept. 25, by State Hy. Dept., Reymond Bldg., Baton Rouge, surfacing 7.66 mi. State Project 384 Gibsland-Bryceland Highway, Bienville Parish, also gravel surfacing 6.111 mi. Federal Aid Project 136A, Lafayette-Broussard Highway, Lafayette Parish and 11 mi. State Project 336, Sects. A and B, Winnsboro-Delhi Highway, Franklin Parish. J. M. Fourmy, ch. engr.

La., Abbeville—Sept. 18, by Police Jury Vermillion Parish, 11 mi. roadwork. P LeBlanc, secy.

Miss., Aberdeen — Sept. 26, by Comrs. Monroe Co., constructing 19 mi. concrete highway between Aberdeen and Nettleton. $600,000. H. C. Deitzer, Jackson, engr.

Kentucky—Sept. 26, by State Hy. Dept., Frankfort, surfacing with rock asphalt on concrete 6.502 mi. Mt. Sterling-Owingsville Rd., 18 ft., Federal Aid Project 98, Montgomery Co. J. S. Boggs, state highway engr.

O., Akron—Sept. 20, by E. A. Kemmler, engr., City Bldg., paving 3.6 mi. Brown, Glendale and North Main Sts., 30-42 ft., brick. $500,000.

Indiana—Sept. 17, by J. D. Williams, dir. State Hy. Comn., Indianapolis, paving 4.842 mi. Federal Aid Projects 29 and 65, Sect. C, Gibson Co., brick, bituminous concrete or concrete.

Michigan—Sept. 19, by State Hy. Dept., Lansing, grading and surfacing 1.956 mi. State Trunk Line Rd. 12-38, Dickinson Co., 23,023 cu.yd. excav., 21,708 sq.yd. concrete, asphalt or bituminous concrete. F. F. Rogers, state comr.

Michigan—Sept. 20, by State Hy. Dept., Lansing, surfacing 4.4 mi. State Trunk Line Rd. 68-3, Ontonagon Co., 3,000 cu.yd. excav., 10,325 tons stamp sand. F. F. Rogers, state comr.

Mich., Grosse Pointe Park (Detroit P. O.) —Sept. 18, by Village Clerk, repaving 5,000 sq.yd. Bedford Rd., sheet asphalt or Willite, $25,000. C. H. Marden, 502 Whitney Office Bldg., Detroit, engr.

Ill., Sparta—Sept. 17, for 20,247 sq.yd. paving. J. F. Swain, clk.; adv. E. N.-R. Sept. 13.

Wis., Elkhorn—Sept. 21, by Walworth Co. State Road and Bridge Com. at office H. J. Peters, co. highway comr., grading and surfacing 1.4 mi. Elkhorn-Tibbetts Rd., 3,745 cu.yd. earth excav., 13,022 sq.yd. 16 ft. concrete, etc.

Ia., Oskaloosa—Sept. 17, by N. Wray, city clk., 7,121 sq.yd. paving various types, 5,492 lin.ft. curb and gutter. $30,000. D. B. Russell, city engr.

Kan., Topeka—Sept. 28, by Clerk Shawnee Co., grading and concrete surfacing 0.593 mi. Capital Highway, Federal Aid Project 106, Sect. B. A. C. Lagerwall, co. engr.

S. D., Watertown—Sept. 17, paving 13,785 sq.yd. various streets, concrete, asphaltic concrete, vitr. brick or creosoted wood blocks. $32,000 or more. B. Mather, city aud.

N. D. Minot — Sept. 21, by Ward Co., gravel surfacing 15 mi. Federal Aid Project 85. $25,000. R. W. Kennard, co. aud.

Ark., Forest City—Sept. 17, by Comrs. Rd. Dist. 12, St. Francis Co. 38,000 cu.yd. excav., 16,600 tons gravel, etc. A. W. Buford, dist. engr. Noted Sept. 6.

Tex., Abilene—City Comrs. taking bids paving with concrete, brick or warrenite bitulithic, Oak, North 1st and Victoria Sts. Cost to exceed $25,000. H. H. Batjer, city engr.

Oklahoma—Sept. 19, by State Hy. Dept. Oklahoma City, grading and paving with vertical fibre brick, asphalt or concrete 267,875 sq.yd. Federal Aid Projects 102, 103 and 99, Stephens Co., 147,189 cu.yd. earth and 18,500 cu.yd. rock excav. $805,000. F. L. Simmons, state highway engr.

Okla., Sapulpa—Sept. 17, by City Clerk, 21,600 sq.yd. concrete, 7,500 lin.ft. curb and gutter and 6,200 cu.yd. excav. $83,000. F. E. Lawrence, city engr.

Nevada—Sept. 19 by State Hy. Dept., Carson City, grading, surfacing with concrete and selected material, building culverts and 1 concrete and steel overhead railroad crossing, Projects 25 and 70, between Keystone and East City Limits of Ely, White Pine 2-D-1.

Washington — Sept. 25, by State Hy. Comn., Olympia, grading and surfacing with crushed rock 8.6 mi. State Rd. 22 from Detillion Bridge north, Stevens Co.; 1.4 mi. Sunset Highway from Spokane westerly, Spokane Co. J. Allen, state highway engr.

Calif., Glendale—City Trustees receiving bids improving Colorado St., 538,990 sq.ft. grading, 519,516 sq.ft. 1½ in. National surface on 4 in. asphaltic concrete, 204,950 sq.ft. scarifying and oiling, 23,453 lin.ft. curbing, 19,473 sq.ft. gutter, etc. B. F. Dupuy, city engr.

Calif., Glendale—City Trustees receiving bids improving Sycamore Canyon Rd., 31,989 sq.ft. gutter, 17,092 lin.ft. curb, 442,637 sq.ft. 1½ in. National on 4 in. asphaltic concrete, and laying 4-12 in. water pipe (latter to be furnished by city), etc. B. F. Dupuy, city engr.

Calif., San Rafael—Sept. 20, by City Council, improving 6th and H Sts., 23,100 sq.ft. 2 in. asphaltic concrete, 1,000 cu.yd. excav., 1,753 lin.ft. concrete curb, etc. H. K. Brainerd, city engr. Noted June 21.

BIDS RECEIVED

Massachusetts—State. Hy. Comn., Boston, paving about 5,000 ft. road in Braintree, bituminous macadam, from E. C. Sargent, 149 Putman St., Quincy, $33,129.

N. Y., Buffalo—A. W. Kreinheder, comr. Pub. Wks., Aug. 27, paving (1) Amherst St. (2) Berea St. (3) Congress St. (4) Fleming St. (5) Collingswood Ave. (6) Midvale Ave, (7) Ramona Ave. repaving (8) Carolina St. (9) Urban St., widening and repaving (10) Genesee St., with (a) asphalt (b) brick, from H. P. Burgard Co., 1968 Fillmore St., (1a) $23,690 (2a) $12,125 (3a) $4,674 (4a) $3,665 (9a) $6,725; Rock Asphalt & Constr. Co., Morgan Bldg., (5a) $17,083 (6a) $9,740 (7a) $19,473 (8a) $25,575 (10a) $71,979; Erie Contg. Co., Morgan Bldg., (3b) $5,381 (4b) $3,835 (5b) $17,857 (6b) $10,856 (7b) $20,158; B. F. Spire, 24 Colonial Circle, (2b) $12,450. Noted Aug. 23.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Sept. 10, grading, curbing, laying sidewalks, etc., on Beach 92nd St., from Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $31,830. Noted Sept. 6.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Sept. 6, sheet asphalt repaving (1) West 149th St. (2) West 150th St. (3) West 153rd St. (4) East 79th St. (5) 77th St. (6) 74th St., from Interboro Asphalt Co., 2306 Creston Ave., (1) $36,889; J. E. Gaffney, 438 West 91st St., (2) $19,479 (3) $19,327; W. J. Fitzgerald, 547 West 45th St., (4) $12,159 (5) $9,239 (6) $9,983. Noted Aug. 30.

N. Y., New York—Park Bd. Municipal Bldg., Sept. 6, sheet asphalt repaving roadway of West Dr. north of 102nd St., in Central Park, from Cleveland Trinidad Paving Co., Flushing, $42,180. Noted Aug. 3.

N. J., Trenton—From J. J. Barrett Co., North Olden Ave., asphalt paving Liberty St. $40,551, asphalt repaving West Hanover St. $11,796, asphalt resurfacing Princeton Ave. $24,936; from Utility Constr. Co., 5 Spring St., New Brunswick, repaving with granite block (between car tracks) on West Hanover St., $12,312, between car tracks on Princeton Ave., $1,310. Noted Aug. 30.

North Carolina — State Hy. Dept., Raleigh, grading and concrete paving 4.95 mi. State Project 902, Buncombe Co., from Wilson Constr. Co., Rutherfordton, $195,957, 5.94 mi. State Project 611, Anson Co., from J. O. Hayworth, Chicago, $454,529, 14.35 mi. State Project 185 C, Pitt Co., from Groves Co. and Shepherd, Inc., Greenville, $404,938, 9.96 mi. State Project 180, Perquimans Co., from Smith Bros. Inc., Sumpter Bldg., Dallas, Tex., $207,911, 4.57 mi. State Project 745, Forsyth Co., 8.04 mi. State Project 641, Iredell Co., 8.22 mi. State Project 592, Rockingham Co. and 4.03 mi. State Project 507, Alamance Co., from Ziegler & Dalton Constr. Co., Junction City, Kan., $172,305, $286,700, $252,983 and $110,880 respectively; grading and topsoiling 7.96 mi. State Project 495, Warren Co., and grading 8.23 mi. State Project 421, Franklin Co., from J. A. Marrow, Clarksville, Va., $38,298 and $38,600 respectively. Noted Aug. 16.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, gravel surfacing 4 mi. Project 101A and 9.2 mi. Project 101B, Jefferson Highway Sabine Parish, from Alexandria Constr. Co., Alexandria, $33,043 and $49,991 respectively; 5.5 mi. Project 101A, Jefferson Highway Natchitoches Parish, from C. W. George, Arcadia, $25,088. Noted Aug. 9.

O., Canton—Stark Co. Sept. 4, improving 1 mi. Sect. A, Whipple Rd., 20 ft., waterbound macadam, from Wise Bros., Canton, $36,780. Engrs. est. $35,000.

O., Cleveland — Paving various streets Florian and Reno Aves., East 115th and West 110th Sts., from Baldwin Bros., 4500 Euclid Ave., $44,151, $47,980, $17,013 and $54,256 respectively; East 114th St., Seller's Ave. and Clairdoan Ave., from H. G. Herring, Powers Exchange, $6,663, $4,706 and $5,795 respectively; East 117th St., from Garland Bros., 5806 Franklin Ave., $17,656; West 46th St., from Cleveland Trinidad Paving Co., The Arcade, $41,110.

O., Columbus — Franklin Co. Aug. 29, grading and paving 1.93 mi. Rose Hill Rd., 16 ft., Truro and Jefferson Twps., waterbound macadam, from Burns-Williams Co., 316 Stoneman Bldg., $37,223. Noted Aug. 23.

O., Cuyahoga Heights (Cleveland P. O.) —Curbing and paving 29,320 sq.yd. East 49th St., granite block, from Enterprise Paving & Constr. Co., 8444 Bway., Cleveland, $34,544. Noted May 3.

Ind., New Albany—Paving East Elm St., from Walter Bros., New Albany, $7.08 per lin.ft. Engrs. est. $25,000.

Michigan — State Hy. Dept., Lansing, grading and surfacing 1.11 mi. State Trunk Line Rd. 51-6, Ottawa Co., 7,084 cu.yd. excav., 13,173 sq.yd. concrete from Cline & Bollens, Spring Lake, $29,129. Noted Aug. 16.

Michigan — State Hy. Dept., Lansing, grading 4.152 mi. Federal Aid Project 82, Sect. A, Wayne Co., from Donaldson & Hull, Dryden, $28,866, also 1.112 mi. State Trunk Line Rd. 60-4, Berrien Co., from R. C. Atchinson, Niles, $30,717. Noted Aug. 23 and 27.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, concrete paving 4 mi. Route 2, Sect. 23, Fayette Co., from W. C. Johnson, 512 South High St., Belleville, $88,197. Noted Aug. 30.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, Aug. 29, concrete paving 5.72 mi. 1-19 Crawford means **(5.72 mi. Route 1, Sect. 19, Crawford Co.)** from C. W. Clark Co., Terre Haute, Ind., 5.72 mi. **1-19 Crawford**, $120,157; from L. S. Kuhn, Bloomington, 11.39 mi. **2-56, 2-62 and 2-62B, McLean, Combination B**, $254,500; from W. C. Johnson, 512 South High St., Belleville, 5.13 mi. **12-15 Marion** $99,981; from French Constr. Co., Fairfield, 6.42 mi. **13-11 Gallatin**, $153,080; from Young & Hall, Nokomis, 9.27 mi. **16-19 Montgomery**, $193,919; from Harrison Eng. and Constr. Co., Wichita, Kan., 13.01 mi. **3-78-69 Monroe means (Route 3, Federal Aid Project 78, Sect. 69, Monroe Co.)** 13.01 mi. **3-78-69 Monroe** and **3-78-70 Randolph-Monroe, Combination C**, $268,000; from Hoefkin Bros., 9.61 mi. **12-34-27 Clinton** and **12-80-28 St. Clair, Combination D**, $181,433; from Pickus Constr. Co., 2316 East 3rd St., Sioux City, Ia., 6.52 mi. **21-24-3 Lake**, $149,309; from Sutton & Moore, Canton, 5.44 mi. **31-79-22 Fulton**, $111,212; from Pronger & Black, Blue Island, 3.11 mi. Federal Aid Project 3, Sect. U-1, Cook Co., $77,589; grading **152,230 cu.yd. 1-28A White means (152,230 cu.yd. Route 1, Sect. 28-A, White Co.)**, from J. Austin, Kirkwood, Mo., **152,230 cu.yd. 1-28A, White**, $73,575; from Armstrong Eng. Co., Taylorville, 288,155 cu.yd. **1-39A and 1-40A Massac, Combination F**, $92,937; from I. D. Lain, Bloomington, 30,950 cu.yd. **2-63A McLean-Woodford**, $17,858 less 1% if personal bond is accepted; from Byers, Wilson Constr. Co., Manchester, Ia., 245,464 cu.yd. **16-21A Montgomery**, $114,907; from Cameron, Joyce & Co., Keokuk, Ia., 107,720 cu.yd. **34-1A Saline**, $46,300 and 69,130 cu.yd. **34-2A Saline**, $50,887; from A. M. Hoolan, Wainwright Bldg., St. Louis, Mo., 279,085 cu.yd. **34-5A Hardin**, $185,130. Noted Aug. 23.

Minnesota — State Hy. Dept., St. Paul, Sept. 5, 7.3 mi. State Project 3-44, Federal Aid Project 328, between St. Cloud and St. Joseph, 102,000 cu.yd. excav., from McKusick Constr. Co., Temple Court, Minneapolis, $0.60 per cu.yd., 77,600 sq.yd. concrete paving from Ostrand & Hallett, Crosby, $2,245; State Project 10-46, Federal Aid Project 313, between Benson and Kerkhoven, 259,000 cu.yd. excav., from M. W. Barnard & Son, 612 Globe Bldg., Minneapolis, $0.3025; from Nelson, Fulton & Nelson, 355 Temple Court, Minneapolis, State Project 3-39, Federal Aid Project 327, between Kellogg and Minneiska, 296,000 cu.yd. excav. $0.2875, State Project 44-22, Sect. 1, Federal Aid Project 329, between Prosper and Mabel, 80,000 cu.yd. excav., $0.32, State Project 44-22, Sect. 2, Federal Aid Project 330, between Mabel and Spring Grove, 125,-

Streets and Roads (Continued)

000 cu.yd. excav., $0.32, and State Project 44-22, Sect. 3, Federal Aid Project 331, between Spring Grove and Caledonia, 130,000 cu.yd. excav., $0.32. Noted Aug. 23.

Minn., St. Paul—Paving with sheet asphalt 3 blocks Goodrich Ave., 4 blocks Palace St., and 9 blocks West 7th St., from Fielding & Shepley, 216 University Ave., $14,223, $22,720 and $61,999 respectively; 8 blocks Front St. and 6 blocks Jackson St., from Hanlon & Okes, 338 Lumber Exch., Minneapolis, $63,448 and $34,385 respectively; alternate bid on brick paving Jackson St., from Fielding & Shepley, 216 University Ave., $50,000.

Tex., Bonham—Fannin Co. grading and rein.-con. surfacing 7.35 mi. State Highway 5, Federal Aid Project 344, 18 ft., from J. C. Feild & Co., Denison, $243,524. Engrs. est. $292,228. Noted Aug. 16.

Tex., Ft. Worth—Paving, etc., Illinois Irma, New York and Lee Sts., from West Texas Constr. Co., Cotton Exch. Bldg., 1,900 cu.yd. excav. $0.90, 4,450 ft. curb and gutter $1.05, 5,885 sq.yd. paving $3.18, etc. Noted Aug. 30.

Tex., Ft. Worth—Paving Belmont, West 10th, Terrell and Green Sts., warrenite bitulithic, from West Texas Constr. Co., Cotton Exch. Bldg., Ft. Worth $3.18. Engrs. est. $50,000.

Okla., Marlow — Grading and paving Bway. and Main Sts., 14,500 sq.yd. asphalt, 3,600 cu.yd. excav., from Western Paving Co., Tradesmens Bldg., Oklahoma City, $74,937. Noted Aug. 16.

California—State Hy. Dept., Sacramento, improving highway between Santa Clara River and 0.2 mi. easterly, Los Angeles Co., from Gibbons & Reed, 905 South Olive St., Los Angeles, 600 cu.yd. embankment at $0.80 per cu.yd., 380 yd. Class A concrete $19, 160 yd. Class A concrete, slope pavement $24; 1.1 mi. between Roseville and Lincoln, Placer Co., from Kaiser Paving Co., Amer. Bank Bldg., Oakland, 1,500 cu.yd. excav. $0.50, 2,675 cu.yd. concrete $13.81; 8.07 mi. road, San Joaquin Co., from Irey & Holden, Lodi, 13,700 tons broken stone $3. Noted Aug. 16.

Calif., Oakland—From Hutchinson Co., 1706 Bway., improving Alcatraz Ave., 127,202 sq.ft. grading at $0.065 per sq.ft., 118,237 sq.ft. bituminous concrete $0.50, 8,260 sq.ft. concrete gutter $0.275, etc.; Madison St., 75,066 sq.ft. grading $0.049, 72,455 sq.ft. asphaltic concrete $0.328, etc.; 9th Ave., 1,997 lin.ft. concrete curb $0.60, 3,993 sq.ft. concrete gutter $0.275, 50,586 sq.ft. 2 in. warrenite bitulithic on existing macadam $0.254, etc.; Jackson St., 2,963 ft. curb without steel guard $0.66, 3,987 sq.ft. concrete gutter $0.385, 104,295 sq.ft. asphaltic concrete $0.328, etc.; 6th St., 52,800 lin.ft. gutter $0.049, 2,024 lin.ft. concrete curb $0.66, 2,400 sq.ft. curb and gutter $0.785, 50,400 sq.ft. 2 in. warrenite bitulithic on 6 in. concrete $0.248, etc. Noted Aug. 16.

Calif., Santa Ana—Improving Fairview Ave., from S. Finley, Santa Ana, 112,747 sq.ft. 6 in. asphaltic concrete at $0.225 per sq.ft., 3,174 ft. curb $0.85, etc. Noted Aug. 30.

Calif., San Diego—Common Council, improving Ash St., from Griffith Co., 25 14th St., 145,042 sq.ft. 2 in. asphaltic concrete on 3 in. bituminous at $0.169 per sq.ft., 1,508 lin.ft. concrete curb $0.65, 5,799 sq.ft. concrete sidewalk $0.22, etc., total $27,725.

CONTRACTS AWARDED

Vermont — Dept. Highways, Montpelier, will pave, etc., 1.33 mi. road, 18 ft., in Windsor, 2,778 cu.yd. rein.-con., 7,795 cu. yd. earth excav., by day labor. Blds rejected, too high. Noted Aug. 16.

Vermont—Dept. Highways, Montpelier, paving 1.85 mi. Federal Aid Project 35, in Ferrisburg, to P. C. Ricci, Rutland, $74,246. Noted Aug. 16.

Massachusetts—State Hy. Comn., Boston, paving with bituminous macadam 16,457 ft. road in Gay Head, to M. F. Roach, East Bridgewater, $84,987; 4,800 ft. road in Westboro, to J. J. Loonie, c/o State Hy. Comn., Boston, $26,693; about 6,000 ft. road in Whately, to Lane Constr. Co., Meriden, Conn., $33,570; 23,000 ft. road in Bourne, to Canedy Constr. Co., New Bedford, $69,940; about 15,000 ft. road in Hingham, Bradford, Weston and Allerton, to W. Roxbury Trap Rock Co., West Roxbury, $87,238.

Mass., Boston—Paving 15,000 sq.yd. Stuart and Elliot Sts., granite block and asphalt, to M. F. Gaddis 5 Paulding St., Roxbury (Boston P. O.), $60,704.

Rhode Island — State Bd. Pub. Wks., Providence, paving 3.53 mi. road in Westerly and Bradford, 18 ft., bituminous concrete, to Bonfiglio Perini & Sons, Ashland, Mass., $57,596; 2.63 mi. in West Greenwich and Exeter, 18 ft., rein.-con., Contr. 2308, to J. Bristow, Narragansett Pier, $109,133. Noted Aug. 30.

Conn., Danbury—State Hy. Comn., concrete paving 14,100 ft. Sugar Hollow Rd., 20 ft., to P. Bacco, 300 State St., Stamford, $123,494. State to furnish cement.

Conn., New Britain — Paving with 8½ rein.-con. and hillside brick 1,000 ft. Broad St., to Battaglia & Leardi, New Britain. Est. cost $27,000. Noted March 22.

New York—F. S. Greene, comr. highways, Albany, constructing and reconstructing 3.42 mi. Repair Contr. 3057, Columbia and Rensselaer Counties, to C. B. Lindholm, 53 North St., Pittsfield Mass., $125,272; 1.94 mi. Repair Contr. 3058, Greene Co., to L. Mayersohn, 89 South Mann Blvd., Albany, $72,323; 2.14 mi. Highway 1675, Orange Co., to H. Hull, Highland Mills, $95,880; 0.33 mi. Repair Contr. 1382 Westchester Co., to Petrillo Bros., Inc., 434 North High St., Mt. Vernon, $20,581; 2.64 mi. Repair Contr. 3059 Rensselaer Co., and 2.94 mi. Highway 1663, Chautauqua Co., to E. J. Bailey, Brocton, $130,876 and $129,427 respectively; 2.34 mi. Highway 1658, St. Lawrence Co., to J. M. McCarthy, Potsdam, $81,353; 3.97 mi. Highway 8154, Steuben Co., to J. F. Gill Co., North Water Gap, Pa., $153,436; 7.7 mi. Highway 8155, Tioga and Tompkins Counties and 6.78 mi. Highway 1676, Tompkins Co., to Cleveland & Sons Co., Brockport, $296,454 and $238,669 respectively; 4.29 mi. Repair Contr. 3056, Tompkins Co., to C. D. Murray, 701 Westcott St., Syracuse, $150,893; 4.7 mi. Repair Contr. 1373, Genesee Co., to H. W. Patterson, Hornell, $158,374. Noted Aug. 23.

New York—F. S. Greene, comr. highways Albany, constructing and reconstructing 1 mi. Repair Contr. 3063, Dutchess Co., to Carnes & Rosoff, Brooklyn, $51,512, engrs. est. $52,581; 4.98 mi. Repair Contr. 3060, Orange Co., to R. Hopkins Co., 86 State St., Albany, $262,956, $277,626; 3.37 mi. Highway 1640, Orange and Ulster Counties, to T. Miele, 8 5th Ave., New Rochelle, $160,557, $160,703; 0.6 mi. Repair Contr. 3053, Albany Co., to D. J. Walsh, 311 North St., Pittsfield, Mass., $34,631, $35,941; 0.35 mi. Highway 5402, Jefferson Co., to J. Thompson, Carthage, $35,051, $36,693; 2.34 mi. Highway 1658, St. Lawrence Co., to H. P. Burgard Co., 1968 Fillmore St., Buffalo, $80,861, $83,147; 2.75 mi. Highway 8124, Oneida Co., to J. H. Corbett, Jr., Syracuse, $115,666, $128,736; 1.5 mi. Repair Contr. 3047, Fulton Co., to H. W. Roberts & Co., Utica, $58,474, $59,582; 7.2 mi. Highway 8143, Otsego Co., to Stento & Serafini, 84 Court St., Binghamton, $259,502, $270,322; 1.25 mi. Repair Contr. 1374, Sullivan Co., to S. K. Johnson, Norwich, $69,190, $69,214; 1.64 mi. Highway 5696, Seneca Co., to Ribstein-Holter Co., Inc., 16 State St., Rochester, $56,836, $60,440; 2.48 mi. Highway 1661, Genesee Co., to W. J. Gallagher, Medina, $86,039, $91,764; 2.99 mi. Highway 1656, Steuben Co., to J. W. Flynn, 141 Broad St., Waterford, $131,187, $158,050; 2.47 mi. Repair Contr. 3061, Cattaraugus Co., to Rochester Vulcanite Pavement Co., Exch. Pl. Bldg., Rochester, $89,900, $98,167. Noted Aug. 23.

N. Y., Lockport—Niagara Co., improving and rein.-con. paving 1.113 mi. River Rd. north of North Tonawanda, 20 ft., to W. C. Rich, Youngstown, O., $51,202. Noted Aug. 23.

N. Y., New York—J. Miller, pres. Manhattan Boro. Municipal Bldg., sheet asphalt repaving Edgecomb Ave., to Interboro Asphalt Co., 2306 Creston Ave., $62,094; West 63rd, West 68th, West 69th and West 108th Sts., to Sicilian Asphalt Paving Co., 41 Park Row, $4,359, $57,345, $19,735 and $11,061 respectively; East 107th and West 158th Sts., to C. D. Beckwith, Inc. 2875 Bway., $32,395 and $73,838 respectively; 109th St., to Brusstar Constr. Co., Harlem River and 150th St., $41,810; West 83rd St., to Cleveland Trinidad Paving Co., Flushing, $67,878; 93rd and East 97th Sts., to Uvalde Asphalt Paving Co., 1 Bway., $18,001 and $19,873 respectively; widening and sheet asphalt repaving 56th St. to W. J. Fitzgerald, 547 West 45th St., $48,924. Noted Aug. 16 and 30.

N. J., Freehold—Monmouth Co. rein.-con. paving 2 mi. Red Bank-Oceanport Rd., to Jannarone Constr. Co., 225 Passaic Ave., Belleville, $102,430 concrete paving Riverside Dr., in Red Bank, to Tuller Constr. Co., Red Bank, $115,970. Noted Aug. 16.

N. J., Newark—Essex Co., paving 21,000 ft. Mt. Pleasant Ave., to Osborne & Marsellis, Bellevue Ave., Montclair, $21,055; grading and paving 16,000 ft. Campbell Ave., Caldwell, 33 ft., 2 in. asphaltic concrete on 6 in. concrete, to Franklin Const. Co., 20 Washington Pl., $28,219; concrete sewers in 5,000 ft. Harrison Ave., Roseland, to J. F. Boylan, Washington Ave., Belleville, $13,924. Noted Sept. 6.

N. J., North Bergen—Bd. Freeholders Hudson Co., Jersey City, concrete paving 3 mi. Bulls Ferry Rd., here, to Curtin Bros., 45 Madison St., Guttenberg, $78,399.

Maryland—State Rds. Comn., Baltimore, gravel surfacing 2 mi. highway in St. Marys Co., Contr. SM-25, to T. B. Lewis & Son, Hyattsville, $22,308. Noted Aug. 9.

N. C., Beaufort—Sidewalks and paving various streets, to Simmons Constr. Co., Brevard Court, Charlotte, $100,000. Noted Aug. 30.

N. C., Charlotte—Mecklenburg Co. surfacing 8 mi. Lawyers Rd., 18 ft., asphalt on concrete, to Noll Constr. Co., Charlotte, $240,000.

South Carolina—State Hy Comn., Columbia, sand clay surfacing 17 mi. Federal Aid Project 208, Colleton Co., to G. F. Bamberg, Bamberg, $93,000. Noted Aug. 30.

S. C., Camden—Sheet asphalt paving various streets to Southern Paving Constr. Co., Camden, $85,000.

Fla., Madison—Madison Co., grading and sand clay surfacing 15.9 mi. Old Troy Rd., Project 10, and 9.46 mi. road from Madison via Rocky Ford to Georgia Line, Project 8, both 30 ft right of way, surface 16 ft wide, to Slago & Harper, Madison, $31,000 and $28,000 respectively; 17.93 mi. Belleville-Monticello Rd., Project 12, 30 ft. right of way, surface 16 ft. wide, to F. C. Glass Lee, $35,000.

Ala., Birmingham—Highland Park Land Co., grading and paving with bitulithic and chirt 10 blocks in Central Park Highlands, 30 ft., to Dunn Constr. Co., Chamber of Commerce Bldg., $25,134.

Mississippi—State Hy. Dept., Jackson, grading and paving 13.5 mi. road between Clanton and Coffee, to J. B. Parker, Crystal Springs, $169,000; grading and gravel surfacing 5.1 mi. road between Vicksburg and Rolling Fork, to Clarke & Judkin, Vicksburg, $63,530.

Miss., Grenada—Grenada Co., graveling 16 mi. West Rd. between Grenada and Tallahatchie line, to J. R. Strouddy, Okolona, $115,941.

Tenn., Rockwood — For 40,000 sq.yd Asphaltic concrete on 5 in. concrete, to West Constr. Co., Chattanooga, $75,000. Noted Aug. 23.

Ky., Ashland—Paving Blackford St., from South Ashland fire station to Ferguson Farm, to Hunt-Forbes Constr. Co., Ashland. Est. cost $75,000.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 2.06 mi. Sect. "O," 0.687 mi. Sect. "Toronto" and 0.687 mi. Sect. "Toronto" Ohio River Rd., Jefferson Co., brick, to E. A. Freshwater Constr. Co., Painesville, $150,000; $37,800 and $29,500 respectively; 2.809 mi. Sect. "M-1" and 3.388 mi. Sect. "N" Ohio River Rd., Lawrence Co., bituminous macadam, asphalt, also bridge on Sect. "N," of above Rd., to Weeks Constr. Co., Dayton, $67,801, $81,348 and $13,327 respectively; 2.504 mi. Sect. "P" and 1.815 mi. Sect. "M" Youngstown-Warren Rd., Trumbull Co., brick with concrete curb, also 1.887 mi. Sect. "A" Aurora-Warren Rd., Portage Co., bituminous macadam, asphalt, to Reedy Bros., Warren, $138,203, $57,680 and $19,790 respectively; 1.967 mi. Sect. "D" Morristown-New Athens Rd., Belmont Co., bituminous macadam, asphalt, to B. C. Stringer, Rayland, $63,317; concrete curbing 8.13 mi. Sect. "N, O, P and R-2" Akron-Youngstown Rd., Mahoning Co., to Mango & Gross, Niles, $36,772. Noted Aug. 30.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 1.106 mi. Sect. "Georgetown" **Cincinnati-West Union Rd.**, Brown Co., bituminous macadam, tar, to Burris, Hanlon, Jones & Park, Hammersville, $30,650; 1.004 mi. Sect. "H" **Roundhead Ada Rd.**, Hardin Co., rein.-con., and 2 mi. Sect. "A" **Marysville-Kenton Rd.**, Hardin Co., bituminous macadam, asphalt, to P. B. Putnam, Van Wert, $23,499 and $55,500 respectively; 0.721 mi. Sect. "Harrisville" **Bridgeport-Cadix Rd.**, and 1.258 mi. Sect. "B" **Dennison-Cadiz Rd.**, both Harrison Co., bituminous macadam, asphalt, to Seaborn Bros., Youngstown, $19,859 and $40,763 respectively; 2.052 mi. Sect. "A," and 3.416 mi. Sect. "B-1" **Hillsboro-Ripley Rd.**, Highland Co., bituminous macadam, asphalt, to A. K. Grandle, Leesburg, $51,349 and $70,856 respectively; 5.785 mi. Sects. "G and L" **Mt. Gilead-**

Streets and Roads (Continued)

Galion Rd., Morrow Co., rein.-con., to J. F. Stambaugh, Ada, $152,719; 0.535 mi. Sect. "B" **Zanesville-Dresden Rd.**, and 3.44 mi. Sect. "A" **Newark-Coshocton Rd.**, water-bound gravel, also grading Sect. "B" **Zanesville-Dresden Rd.**, and 3.44 mi. Sect. "A" **Muskingum-Coshocton Rd.**, all foregoing in Muskingum Co., to Keystone Constr. Co., Columbus, $3,314, $27,120, $1,864 and $14,449 respectively; 0.538 mi. Sect. "G" **Zanesville-New Lexington Rd.**, Perry Co., bituminous macadam, tar, to J. W. Carey, Ada, $18,490; 0.517 mi. Sect. "S-2" **Newark-New Lexington Rd.**, Perry Co., bituminous macadam, asphalt, to W. M. Gray, Columbus, $15,839; 2.602 mi. Sect. "A," 2.121 mi. Sect. "B" and 0.556 mi. Sect. "H" **Ottawa-Defiance Rd.**, Putnam Co., Kentucky rock asphalt, to O. L. Smith, Leipsic, $61,315, $50,545 and $13,042 respectively; 1.725 mi. Sects. "F and G" **Canton-Massillon Rd.**, Stark Co., brick, to G. W. Hadley, Canton, $75,721; 1.375 mi. Sect. "J-1" **Niles-Ashtabula Rd.**, Trumbull Co., rein.-con., to W. M. Keesecker, Youngstown, $41,061; 0.118 mi. Sects. "L and G" **Cincinnati-West Union Rd.**, Clermont Co., bituminous macadam, asphalt, to C. Graber, Owensville, $17,577; 4.04 mi. Sects. "G and H" **Dayton-Chillicothe Rd.**, Greene Co., bituminous macadam, asphalt, to A. C. Pickleheimer, Cincinnati, $36,119; 1.01 mi. Sect. "A-1" **Payne-Hicksville Rd.**, Paulding Co., bituminous macadam, asphalt, to Putnam & Sunday, Van Wert, $9,419; widening 2.481 mi. Sect. "J-1" and 0.189 mi. Sect. "J-2" **Mansfield-Shelby Rd.**, Richland Co., main concrete, to A. J. Baltes, Norwalk, $34,236 and $2,951 respectively; concrete curbing 3.9 mi. Sect. "F" **Coshocton-New Comerstown Rd.**, Coshocton Co., to W. M. Brode, New Comerstown, $18,112; 1.74 mi. Sect. "G" **Lima-Sandusky Rd.**, Hancock Co., to W. H. and H. A. Souder, Fosteria, $8,244. Noted Aug. 30.

O., Akron—Dept. Pub. Service, grading curbing and cindering 1,100 cu.yd. 7th Ave., to T. Timmis, $11,409; grading, curbing and paving 1,705 sq.yd. Pine Alley, standard brick, asphalt fill, to Di Foti Constr. Co., $14,721; 4,235 sq.yd. Burton and Grand Aves., also 2,100 sq.yd. Berwin St., sheet asphalt, asphalt fill, Trinidad, to T. E. McShaffrey Constr. Co., 171 South Forge St., $30,639 and $18,352 respectively.

O., Akron—W. F. Peters, dir. Pub. Serv. grading laying sidewalks and paving 2,150 sq.yd. Rentschler Court, trinidad asphalt, to T. E. McShaffrey Constr. Co., 171 South Forge St., $1.75 per sq.yd., total cost $26,951. Engrs. est. $26,821. Noted Aug. 23.

O., Cleveland—Bd. Educ., East 6th St. and Rockwell Ave., improving Benjamin Franklin, John Adams, Lincoln High and Patrick Henry Schools, grading, to V. Q. Galier, Rose Bldg., $27,461; masonry work, to A. MacDougell Co., Irene Ave., $24,564; landscaping, to T. Lionti, 14500 Sylvia Ave., and Independence Nurseries Co., Independence, $16,380 and $7,108 respectively. Noted Aug. 23.

O., Columbus — W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving 684 ft. Lynn St., 21 ft., asphalt, to Franklin Asphalt Paving Co., 209 South High St., $8,250; 748 ft. Washington Ave., 20 ft., and 544 ft. Neff Ave., 24 ft., both asphalt, to L. L. Aller, Worthington, $6,651 and $8,810 respectively; 404 ft. Milton Ave., 24 ft., asphalt, to B. F. Patterson, 1214 Neil Ave., $4,954; 691 ft. alley north of 18th Ave., 15 ft., concrete to Yale Constr. Co., 146 Yale Ave., $1,226; 695 ft. alley north of 18th Ave., 15 ft., concrete, to R. J. Dienst, 480 South 5th St., $2,602; 633 ft. alley west of Hamlet St., 20 ft., 937 ft. alley west of Summit St., 15 ft., and 636 ft. alley west of 4th St., 15 and 16 ft., all concrete, to Columbus Contg. Co., 1471 West Broad St., $3,231, $3,984 and $3,231 respectively. Noted Aug. 23.

O., Lisbon—Columbiana Co., paving 1.33 mi. East-Palestine-New Waterford Rd., bituminous macadam, to J. D. Paxon, 119 West Main St., Salem, $25,250.

O., Ravenna — Portage Co., resurfacing road between Garrettsville and Nichols Corner, and increasing width from 14 to 16 ft., to Ready Bros., Warren, $39,163. Engrs. est. $42,000.

Michigan — State Hy. Dept., Lansing, grading and surfacing 1.69 mi. State Trunk Line Rd. 17-6, Sects. A and B, and 3,916 mi. Federal Aid Project 74, Sect. D, Washtenaw Co., to Dawson Bros., Ypsilanti, $34,652 and $106,919 respectively; 6.983 mi. State Trunk Line Rd. 46-20, Sanilac Co., to A. McDonell, Omer, $88,418.

SEWERS—ASHLAND, KY.

Following are lowest three bids opened by T. Boggess, city engr., Aug. 7, for constructing 25 mi. sanitary sewers, (A) S. L. Sluss Constr. Co., Iaeger, Va., (awarded contract); (B) Thoney Pietro Co., Ashland; (C) Oakwood Constr. Co., Ashland. The unit bids were as follows:

	A	B	C
21 ft. 6 in. pipe, 3 ft. average cut	$0.60	$0.75	$1.00
98,541 ft. 8 in. pipe, 6.8 ft. average cut	0.95	0.90	1.25
5,818 ft. 10 in. pipe, 7.2 ft. average cut	1.20	1.25	1.55
2,729 ft. 12 in. pipe, 5.7 ft. average cut	1.35	1.40	1.65
4,528 ft. 15 in. pipe, 6.2 ft. average cut	1.85	3.00	1.70
5,152 ft. 18 in. pipe, 7.3 ft. average cut	2.00	3.50	2.45
1,030 ft. 20 in. pipe, 9 ft. average cut	2.50	4.00	2.75
9,390 ft. 24 in. pipe, 10.5 ft. average cut	4.00	5.00	4.10
1,090 ft. 27 in. pipe, 11 ft. average cut	8.70	6.50	6.10
2,500 cu yd. rock excavation	6.00	8.00	5.00
596 manholes, 7.1 ft. depth	75.00	75.00	70.00
11 drop manholes, 13.4 ft. depth	150.00	150.00	150.00
Clyffside cribbing (lump sum)	5,180.00	4,000.00	2,500.00
Clyffside outlet (lump sum)	2,200.00	2,500.00	750.00
4,000 lin.ft. brick paving	1.50	1.00	2.00
Long run outfall (lump sum)	21,805.00	28,000.00	24,400.00
50 cu.yd. 1:3:6 concrete	20.00	25.00	10.00
13th St. connection (lump sum)	500.00	800.00	250.00
Extended totals	$270,626	$296,467	$297,289

WATER MAIN—CLEVELAND, O.

Following are lowest three bids opened by Dept. Pub. Utilities, Div. of Water, Aug. 11, for furnishing and laying Lorain Ave. Main, (A) Joseph Kalill & Jackson Co., 621 Bangor Bldg., (awarded contract); (B) Joseph & Lewis, 877 Orange Ave.; (C) Langenhan Constr. Co., 408 Marshall Bldg. The unit bids were as follows:

	A	B	C
16,500 cu.yd. excavation and backfilling	3.00	3.50	3.60
35 M.ft. B.M. lumber and wooden sheeting, left in place	40.00	30.00	50.00
1,890 tons furnishing and laying cast iron, straight, bell and spigot pipe	81.00	84.00	85.00
55 tons furnishing and laying cast iron, bell and spigot standard fittings	166.00	190.00	185.00
2 tons furnishing and laying cast iron, bell and spigot special fittings	180.00	190.00	185.00
4 tons furnishing and laying cast iron, flanged fittings	225.00	200.00	240.00
Setting nineteen 20-in. gate valves, furnished by the city	75.00	100.00	50.00
Setting eight 16-in. gate valves, furnished by the city	40.00	80.00	40.00
Setting fifteen 12-in. gate valves, furnished by the city	18.00	20.00	25.00
Setting one 10-in. gate valve, furnished by the city	18.00	15.00	20.00
Setting three 8-in. gate valves, furnished by the city	15.00	10.00	15.00
Setting five 4-in. gate valves, furnished by the city	6.00	5.00	10.00
Setting five 4-in. hydrants, furnished by the city	10.00	30.00	40.00
75 cu.yd. brick masonry	30.00	20.00	30.00
50 cu.yd. concrete masonry	20.00	20.00	30.00
1,000 lb. steel reinforcement and miscellaneous wrought iron	0.10	0.10	0.10
500 lin.ft. furnishing and laying 12-in. vitrified pipe drains	3.00	2.00	1.00
300 lin.ft. furnishing and laying 10-in. vitrified pipe drains	3.00	1.70	1.00
300 lin.ft. furnishing and laying 8-in. vitrified pipe drains	2.00	1.50	1.00
500 lin. ft. furnishing and laying 6-in. vitrified pipe drains	2.00	1.20	0.75
500 lin.ft. furnishing and laying 4-in. vitrified pipe drains	1.50	1.10	0.50
18 furnishing and setting 2-in. brass drains; and setting 2-in. valves and valve boxes, furnished by the city	48.00	20.00	50.00
700 lin. ft. furnishing and laying 2-in. galvanized iron pipe	2.00	1.00	1.00
8 tons furnishing and delivering surplus cast iron water pipe and fittings	50.00	50.00	50.00
Extended totals	$227,302	$239,420	$242,840

BOULEVARD—MAYS LANDING, N. J.

Following are lowest three bids opened by Comrs. Atlantic Co., Atlantic City, Aug. 8, for repairing Absecon Blvd. and bridges, (A) C. H. Earle, 173 Main St., Hackensack, (awarded contract); (B) Sutton & Gorson; (C) Standard Bitulithic Co. The unit bids were as follows:

	A	B	C
25,337 cu.yd. excavation	$1.00	$1.25	$1.15
51,007 cu.yd. road gravel embankment	1.75	1.50	1.98
69,228 cu.yd. extra embankment	0.75	1.18	1.42
109,062 sq.yd. concrete base	2.00	1.90	2.02
105,919 sq.yd. asphalt block surface	2.80	2.78	2.60
80,000 sq.yd. shoulder gravel	0.50	0.50	0.58
105,919 sq.yd. sand mortar cushion	0.175	0.10	0.25
1,000 sq.yd. concrete gutters	3.00	3.00	3.05
2,000 lin.ft. trench drains	1.50	1.00	1.50
250 lin.ft. 12 in. c. i. pipe cross drains	4.25	3.75	4.50
60 lin.ft. 15 in. c. i. pipe cross drains	6.00	6.00	7.00
100 lin.ft. 12 in. galvanized pipe	2.75	3.00	3.25
100 lin.ft. old c. i. pipe relaid	2.00	2.00	3.00
18 cu.yd. concrete construction	25.00	25.00	25.00
4 concrete catch basins	100.00	150.00	90.00
4 concrete curb inlets	30.00	100.00	75.00
41,140 lin.ft. reconstructed guard rail	0.60	0.70	0.90
5,882 lin.ft. wooden curbs	0.30	0.45	0.35
Bridge No. 1 complete in place (lump sum)	42,000.00	41,284.00	42,187.00
Bridge No. 2 complete in place (lump sum)	6,000.00	6,100.00	9,272.00
Bridge No. 3 compl. te in place (lump sum)	7,200.00	7,700.00	8,156.00
Bridge No. 4 complete in place (lump sum)	10,000.00	10,780.00	10,406.00
Bridge No. 5 complete in place (lump sum)	5,250.00	5,450.00	6,200.00
Bridge No. 6 complete in place (lump sum)	8,800.00	9,620.00	10,012.00
Bridge No. 7 complete in place (lump sum)	9,000.00	9,400.00	9,112.00
Bridge No. 8 complete in place (lump sum)	28,000.00	28,700.00	27,621.00
Bridge No. 9 complete in place (lump sum)	33,500.00	32,400.00	35,044.00
500 lin.ft. inc. or dec. pile length—Bridge No. 1	500.00	500.00	750.00
1000 lin.ft. add. anchor piles—Bridges 1–9	2,000.00	1,200.00	1,750.00
5,000 lb. additional tie rods, turnbuckles, etc	1,000.00	750.00	1,250.00
Extended totals	$928,349	$935,712	$1,007,184

Mich., Pontiac—Oakland Co., paving 7 mi. Nine Mile Rd. from Southfield Rd. to Macomb Co. line, 82,000 sq.yd. 8 in. one course concrete, to R. D. Baker Co., 1631 Elmhurst Ave., Detroit, $268,500.

Wisconsin — State Hy. Comn., Madison, grading, concrete surfacing, etc., Fennimore-Montfort Rd., Project 337, Sect. 1, Grant Co., to A. Larson & Co., Eau Claire, 7,000 sq.yd. concrete $1.78, etc., total $20,838. Noted July 12.

Ia., Clinton—Clinton Co., grading primary road southeast of Charlotte, to Littig Constr. Co., 1st Natl. Bank Bldg., Davenport, 110,768 cu.yd. excav. $0.27, etc.; Jenner Bros., Davenport, 55,259 cu.yd. excav. $0.30, 2,817 cu.yd. loose rock excav. $0.50, 5,615 cu.yd. solid rock excav. $1.75, etc.

Streets and Roads (Continued)

Ia., Des Moines—For 28,000 sq.yd. of 8 in. concrete paving on East 30th St. and Vandalia Rd., to Hawkeye Constr. Co., 223 Securities Bldg., $2.66 per sq.yd. Engrs. est. $75,000.

Ia., Muscatine—Muscatine Co., grading 12 mi. Grant highway from Stockton to Elizabeth, Ill., to S. J. Groves & Sons, 306 Globe Bldg., Minneapolis, Minn., $100,300.

Ia., Mt. Pleasant—Henry Co., grading 7.26 mi. Federal Aid Project 151, to W. W. Cummings, Ottumwa, 160,111 cu.yd. excav. $0.27 and 1,560 cu.yd. excav. $0.30; Lanstsen & Nielsen, Nevada, 5,732 ft 6 in tile $0.127, 7,870 ft. 8 in. $0.17 and 530 ft. 12 in. $0.32, etc. Noted Aug. 16.

Ia., Storm Lake—Buena Vista Co., grading Primary Project 49, to J. Clinton, Storm Lake, 5,081 cu.yd. excav. $0.37; Scothorn & Hartzell, Earley, 8,038 cu.yd. excav. $0.36; J. G. Johnson, Greenville, 15,654 cu.yd. excav. $0.32; H. Peterson, Lu Verne, 131,550 ft. 6 in. tile $0.1095 and 1,000 ft. 8 in. $0.163.

Minn., Duluth—Grading and building culverts on 5 mi. Congdon Blvd., 37 ft., to D. H. Clough, 405 Palladio Bldg., $48,561. Roadway will be paved with concrete next year.

Kan., Bennington—Grading and concrete surfacing 0.748 mi. Salina-Bennington Rd., 18-50 ft., to Rexroad Constr. Co., Minneapolis, $42,937. Noted Aug. 31.

Kan., Marysville—Paving various streets brick on concrete, to J. Stanton Constr. Co., 6th and Kiowa Sts., Leavenworth, $55,509.

Kan., Osage—See "Dams."

Kan., Smith Center — Paving various streets with brick, also storm sewers, to H. J. Taylor Constr. Co., Belleville, $47,158.

Kan., Winfield—Grading and paving with asphalt on concrete 3,200 ft. Main St., to M. R. Ammerman, 248 North Market St., Wichita, $34,480.

South Dakota—State Hy. Dept., Pierre, improving roads (F.A.P. 75 B Perkins means Federal Aid Project 75, Sect. B, Perkins Co.) grading 10.35 mi. **F.A.P. 75, B, Perkins** and 14.28 mi. **F.A.P. 141, Hughes**, to C. J. Wheelock, Pierre, $41,660 and $44,607 respectively; 6.88 mi. **F.A.P. 147, Hutchinson**, to Tobin & Maloney, Madison, $20,868; 9.27 mi. **F.A.P. 105, A and B, Brown**, to W. Geddes, Ellendals, $21,480; 11.74 mi. **F.A.P. 134, Douglas**, to D. D. Bidwell, Egan, $38,109; 14.58 mi. **F.A.P. 142, Brown**, to H. L. Hanson, Stratford, $41,911; 11.05 mi. **F.A.P. 143, Marshall**, to Jahnig & Davis, Britton, $47,187; 7.37 mi. **F.A.P. 157, Jones**, to G. W. England & Son, Murdo, $31,907; gravel surfacing 18.01 mi. **F.A.P. 78, Tripp**, to Sheehan & Bjerkness, Sioux Falls, $71,018; 8.76 mi. **F.A.P. 136, Hamlin**, to R. R. Wiley, Summit, $8,998; 17.54 mi. **F.A.P. 28, Chas. Mix**, 12.35 mi. **F.A.P. 61, C. Aurora** and 9.34 mi. **F.A.P. 73, Campbell**, to Tobin & Maloney, Madison, $37,304, $29,718 and $12,202 respectively. Noted Aug. 16 and 23.

Wyo., Sheridan—To Warren Constr. Co., 289 East Salmon St., Portland, Ore., paving with Warrenite bitulithic on 3 in. bituminous, Dists. 22 and 23. Noted Aug. 23.

Mo., St. Louis—Bd. Pub. Serv., City Hall, granite curbing and paving 2,180 sq.yd. De Soto St., 1,145 sq.yd. Linton St., and 920 sq. yd. Christy St., vitr. brick, to Eyermann Constr. Co., 1216 South Grand St., $12,344, $6,397 and $5,058 respectively; 7,450 sq.yd. Whittier St. and 5,335 sq.yd. Ohio St., bitulithic on concrete, to Granite Bituminous Paving Co., Ry. Exch. Bldg., $18,938 and $28,449 respectively.

Ark., Augusta — Woodruff Co., grading and gravel surfacing 20 mi. in Rd. Dist. 15, 14 ft., to R. L. Gasten, A. O. U. W. Bldg., Little Rock, $194,000.

Ark., Blytheville — Paving, grading and gravel surfacing various streets, to J. H. Rouse, Cape Girardeau, Mo., concrete $2.23, gravel surfacing $1, excav. $0.35, etc., total $408,851. Noted May 3.

Ark. El Dorado—Improvements in Impvt. Dist. 16, 13,000 cu.yd. excav., 21,000 ft. concrete curb, 36,000 sq.yd. concrete paving, 7,000 ft. 15 in. storm sewer, 5,000 ft. 6 in. sanitary sewer, etc., to Plains Paving Co., Staley Bldg., Wichita Falls, Tex., Dist. 19, 10,670 sq.yd. concrete paving, 8,940 ft. curb, etc., Dist. 23, 17, 160 sq.yd. paving, 13,420 ft. curb, etc., to O. V. Martin Con. Co., Ft. Smith. Noted July 19.

Ark., Little Rock—Pulaski Co. paving 25 mi. Little Rock and Spring Lake Highway, 47,000 cu.yd. excav., 8,000 lb. reinforcing steel, 130,000 sq.yd. gravel, 4.5 mi. average haul, etc., to Shelby & Bateman, Little Rock.

Ark., Pine Bluff—Grading, paving and installing 3 steel bridges on Plum Bayou Rd., 985.44 cu.yd. concrete, 120,000 cu.yd. earth excav., 54,750 tons gravel, etc., to Brady, Carr & Gwin, Pine Bluff, $126,766.

Ark., Russellville — Grading and paving with rein.-con. 2,500 ft. A. and Washington Sts., to P. Huggler, Russellville, $26,000.

Tex., Breckenridge—Stephens Co., 157,000 sq.yd. Caddo Rd., Topeka mix (modified), to Womack Constr. Co., Sherman, $230,000. Noted Aug. 23.

Tex., Dallas—Dallas Co., surfacing 55,500 sq.yd. Garland-Sachse Rd., ½ in. bituminous, to Hill, Wilson & Watson, North Texas Bldg., $0.24 sq.yd.

Tex., Dallas—See "Sewers."

Tex., Dallas—Taylor & Irwin, Southwestern Life Bldg., grading, macadam surfacing, concrete, curb, gutter and side walks, Irwindell addition, Cockrell Hill Sect., to A. F. Moberly and M. C. Wilhite, 5830 Richmond St., cost to exceed $25,000.

Tex., Dallas—Widening North Lamar St. from Elm to Pacific Sts., to Standard Constr. Co., Insurance Bldg., Dallas, $300,000.

Tex., Farmersville—Paving 15,000 sq.yd. various streets, 3 in. vertical fibre brick on 4 in. concrete, to Plains Paving Co., Staley Bldg., Wichita Falls, $45,000.

Tex., Ft. Worth—Paving Cherry, West Myrtle and Green Sts., to West Texas Constr. Co., Cotton Exch. Bldg., $3.18; Lee St. to General Constr. Co., Cotton Exch. Bldg., $2.80. Total cost to exceed $50,000. Noted Aug. 2.

Tex., Graham—Paving 4 blocks Public Sq., 3 in. vitr. brick on 5 in. concrete, to Plains Paving Co., Staley Bldg., Wichita Falls, about $25,000 cost.

Tex., Paris—Concrete paving 2.58 mi. Highway 3 through Brokston, 18 ft., to J. C. Field & Co., Denison, $66,591. Noted Aug. 16.

Tex., Houston—Paving Sunset Rd. from Main to Ashby Sts., 2 in rock asphalt, to S. Shambaugh, West Bldg., $45,765.

Okla., Oklahoma City—Grading and paving 40th St. from Georgia to Classen Sts., 4,650 sq.yd. asphalt, etc., to Western Paving Co., Tradesmens Bldg., Oklahoma City, $27,113.

Okla., Oklahoma City—Widening 8 blocks Hudson St., 4,500 sq.yd. asphalt, 6,500 lin.-ft. curbing, 6,500 lin.ft. gutter, etc., to Western Paving Co., Tradesmens Bldg., $37,569.

Colorado—State Hy. Dept., Denver, concrete paving 1.329 mi. road between Rocky Ford and Swink, Federal Aid Project 247 A, Otero Co., to J. Finger & Sons, Ft. Collins, $41,369.

Nevada—State Hy. Dept., Carson City, to K. Hodgman, Winnemucca, grading and surfacing with selected material, Project 44, between Pancake Summit and Illipah, White Pine 2-B, Constr. 86, $31,445; to Strange & Vallandingham, Salt Lake City, Utah, grading, gravel surfacing and building culverts on Project 15-R, between West Elko Co. Line and Vivian, Elko 1-A-2, Contr. 87, $45,870.

Oregon—State Hy. Comn., Salem, grading and surfacing 7.19 mi. John Day Highway, Umatilla Co., to Carlson & Nyberg, Spokane, Wash., 38,000 cu.yd. common excav. $0.32, 16,000 cu.yd intermediate excav. $0.32, 3,000 cu.yd. solid rock $1, 7,300 cu.yd. broken stone surfacing top $2.20, 7,300 cu.yd. broken stone surfacing base $2.20, 700 cu.yd. broken stone maintenance $2., total $63,692.

Oregon—State Hy. Comn., Salem, furnishing material resurfacing 12.5 mi. Columbia River Highway, Wasco Co., broken stone and creek gravel, to Root & Joslin, Spokane, Wash., $27,940, work will be done by force account; materials for 15 mi. Columbia River Highway, Morrow and Umatilla Counties, to J. K. Shotwell, Hermiston, $22,780, work by force account plus 10 per cent.

California—State Hy. Dept., Sacramento, constructing concrete shoulders and asphaltic concrete paving 3.4 mi. road between San Bruno and San Mateo, San Mateo Co., to Pacific States Constr. Co., Call Bldg., San Francisco, $207,782; concrete shoulders and concrete paving 1.2 mi. between Roseville and Lincoln, Placer Co., to Kaiser Paving Co., Amer. Bank Bldg., Oakland, $37,805; waterbound macadam shoulders on 8.07 mi. road west boundary to Banta, San Joaquin Co., to Irey & Holden, Lodi, $41,100. Noted Aug. 16 and 23.

Calif., Glendale — Improving Sycamore Canyon Dr., to E. L. Flemming, 105 North Park Ave., Pomona, 2,295 lin.ft. grading at $3.80 per lin.ft., 3,726 ft. gutter $0.21, 55,830 sq.ft. 5 in. oil macadam $0.13, 2,098 ft. 8 in. c.i. water pipe $6,650, etc. Noted Aug. 30.

Calif., Los Angeles—Improving 19th St. to Griffith Co., Railway Bldg., total for grading $4,200, 81,077 sq.ft. concrete $0.22, 3,337 ft. curb $0.65, 17,262 sq.ft. walks $0.22, etc. Noted Sept. 6.

Calif., Los Angeles—Improving Topango Canyon Ave., to Boulevard Land Co., 111 West 4th St., total for grading $53,785, 94,062 sq.ft. concrete $0.35, 14,936 lin.ft. curb $0.60, 438,941 sq.ft. walks $0.60, etc. Noted Aug. 30.

Ore., Portland—Paving 12 blocks Russell St., to Municipal Paving Plant, City Hall, $38,881. Engrs. est. $39,460.

Calif., San Diego—Common Council paving 30th St., to G. R. Daley, 4430 Boundary St., $58,556. Noted Aug. 16.

Calif., San Diego—San Diego Co., to California Constr. Co., Union Bldg., paving highway from Fallbrook to San Diego-Riverside Co. line, $196,180, Nutmeg to Lime Sts., in city of Escondido, $39,100, road from Bernardo to Escondido, $61,280; to H. D. Churchill, 253 South Bway., Los Angeles, paving road from Buena to Bonsall, $255,960. Noted Aug. 9.

Calif., San Diego—Common Council improving Imperial Ave. from 32nd to 40th Sts., to G. R. Daley, 4430 Boundary St., $28,439; Imperial Ave. and 10 other streets to H. G. Fenton, 168 10th St., $60,497. Noted Aug. 9.

Calif., San Diego—Common Council, improving 12th St., extension in Balboa Park, to Griffith Co., 25 14th St., 2,140 cu.yd. earth excav. at $0.20 per cu.yd., 159,142 sq. ft. 1½ in. asphaltic concrete on bituminous $0.15, total $24,299. Noted Aug. 16.

Quebec—Provincial Government, Quebec, macadamizing roads to O'Connor Bros. Ltd., 20 St. Nicholas St., Montreal, 3.48 mi. in St. Stanislasde Kostka $25,402, 5.9 mi. in Godmanchaster Twp. $17,750; to Kennedy Constr. Co., Ltd., 310 Shaughnessy Bldg., Montreal, in St. Vincent de Paul $21,083, 2.37 mi. in St. Francois de Salles $12,183; to J. Trudeau & Fruessier, Valenciennes, 0.88 mi. in Belle Ulage $6,297, 0.57 mi. in Rigaud $5,021, 3.13 mi. in St. Madeline de Rigaud $23,215.

Que., Montreal—Asphalt pavements, to Quinlan, Robertson & Janin Ltd., 52 Duluth Bldg., Rose de Lima St. $14,350, Jacques Hertel St. $54,000, Rosemount Blvd., $11,920; to Sicily Asphaltum Paving Co., 60 St. Viateur St., DeLaRoche St. $28,850, DeGaspe St. $12,897; concrete sidewalks to Rondou Corlier & Co., 3506 Christophe Colomb St., Valmont St. $6,036; to J. Toralli, 186 St. Marguerite St., Harvard Ave. $5,409, Old Orchard Ave. $5,475; to Leger & Lamoreux Ltd., St. Denis Bldg., St. Gerard St., $6,933, Boyer St., $6,265, 3rd Ave., $21,507; to F. Lapan, 601 Lacordaire St., Grey Ave., $6,164, 2nd Ave. $6,965. Noted Sept. 6.

Que., St. Lambert—For 30,000 sq.yd. asphalt pavements on various streets to Quinlan, Robertson & Janin Ltd., 50 Notre Dame St. W., $3.19 per sq.yd., total $95,700.

Ont., Dunnville—For 15,000 sq.yd. concrete pavement, 8,200 lin.ft. concrete curbing and guttering on Broad St., to Britnell Contg. Co., Baxter St., Toronto, $40,527.

Ont., Port Dover—J. Sloan, town clk., 14,000 sq.yd. tarvia macadam pavement and 2,000 lin.ft. curb and gutter, to Paving & Mastic Co., Simcoe, $40,000. Noted Aug. 23.

Ont., Toronto—To Kilmer & Barber, 24 Adelaide St. W., resurfacing with asphalt De Grassi Ave. $12,532, Hogarth Ave. $7,265, paving with asphalt on concrete Davenport Rd. $26,580, Ladykirk Ave. $4,748, 7th St. $3,111, Munro St. $11,601; to Godson Contg. Co., Manning Chambers, asphalt on Runnymede Rd. $26,682; to Constructing & Paving Co., Confederation Life Bldg., asphalt on Garfield Ave. and Rose Park Crescent $23,441; to Warren Bituminous Paving Co., 54 University Ave., bituminous concrete on Springmount Ave. $12,240; to Commissioner of Wks., City Hall, asphalt on Edward St. $17,798, Heath St. E. $25,439 and Lincoln Rd. $1,756.

Industrial Works

PROPOSED WORK

Mass., Taunton—Municipal Light Dept., City Hall, having plans prepared for power plant on Court St. $225,000 to $250,000. Jackson & Moreland, 387 Washington St., Boston, engrs.

Conn., South Manchester — H. Stephens, 161 Center St., had plans prepared by R. M. Gosler, 19 Madison St., 1 story, (ultimately 3 story) 60 x 90 ft. garage and rear additions, concrete, brick and steel, plain foundation, Center St. $40,000.

Industrial Works (Continued)

N. Y., Binghamton—Cutler Ice Co., Front St., plans plant addition. I. H. Thomas, pres.

N. Y., New York—G. G. Miller, archt. and engr., 1482 Bway., preparing plans rein.-con., brick and steel garage, plain foundation, Longfellow Ave. and Home St. $150,000. Owner's name withheld.

N. Y., North Tonawanda—Ontario Paper Co., Thorold, Ont., plans mill, Little Island, here. $3,000,000. W. Curtis, genl. mgr.

N. Y., Saratoga—Baker Mfg. Co. had plans prepared 1 story, 50 x 87 ft. brick foundry, plain foundation, Ballston St. $50,000. Private plans.

Md., Baltimore—Gas & Electric Co., Constitution and Monument Sts., plans 1 story, 118 x 169 ft. repair shop, etc. $69,590.

W. Va., North Fork—Community Garage plans 2 story, 106 x 106 ft. sales and service building, steel. S. S. McNeil, pres. and mgr. L. Richards, Crumpler, archt.

N. C., Aberdeen—The Prizery & Rehandling Co., plans large plant, iron-clad. $50,000. A. H. McLeod, Aberdeen, interested.

N. C., Kinston—City plans gas plant. $100,000. W. B. Coleman, clk.

N. C., Raleigh—J. W. Evans, East Morgan St., plans 2 story, 100 x 100 ft. repair shop, brick. Blount and Morgan Sts. $50,000. Engineer not announced.

Ala., Bessemer—Harbison-Walker Refractories Co., Farmers Bldg., Pittsburgh, Pa., plans plant, here. $600,000.

O., Cleveland — H. D. Koblitz, Osborn Bldg., had plans prepared by R. M. Hulett, 1104 Prospect Ave., 1 story, 89 x 116 ft., brick and timber garage and commercial building, East 55th St. and Cedar Ave. $50,000.

O., Cleveland—I. G. Kohn, 640 Guardian Bldg., had plans prepared by Lehman & Schmitt, Electric Bldg., 1 and 2 story, 60 x 126 ft., brick and steel garage and commercial building, 2027 East 105th St. $50,000.

Ind., Muncie — Indiana State Normal School having plans prepared by Kibele & Garrard, 355 Johnson Bldg., 1 story power house, at State Normal School, here. $60,000.

Mich., Detroit—Pitman & Thieme, c/o S. E. Remey, archt., 1140 Griswold St., having plans prepared 1 story and basement, 90 x 120 ft. brick and steel garage and repair shop, plain foundation, Hamilton Blvd. $40,000.

Mich., Jackson—Michigan Seating Co. having plans prepared by H. L. Mead, Grand Rapids, 5 story and basement, 72 x 132 ft. brick, steel and stone addition to factory, plain foundation. $150,000.

Mich., Union City—Ford Garage Co. plans garage and service station. $75,000. Engle & Stanton, owners.

Ill., Chicago—Goss Printing Co. having plans prepared by R. G. Schmid & Co., 77 West Washington St., 4 story, 100 x 150 ft., concrete and brick addition, 1535 South Paulina St. $250,000.

Wis., Elkhorn—H. Wheeler plans 2 story garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. Engineer and architect not selected.

Wis., Janesville — Rock County having plans prepared by E. E. Dillon, Washington Bldg., Madison, 1 story, 50 x 90 ft., rein.-con., brick and steel boiler house and coal bin. $40,000. M. L. Paulson, Evansville, chn. building com.

Wis., Madison—Chicago & Northwestern Ry. Co., c/o B. R. Kulp, engr., 201 South Blair St., having plans prepared 2 story, 50 x 100 ft. machine and repair shop, brick and rein.-con. $40,000. Private plans.

Wis., Milwaukee—Boston Store, 319 Grand Ave., plans 1 story, brick and concrete garage, plain foundation, Virginia St. $50,000. N. Stone, pres. Architect not selected.

Wis., Milwaukee—Luick Ice Cream Co., 183 Ogden Ave., had plans prepared 4 story, 120 x 120 ft., brick and concrete garage, Van Buren St. Leenhouts & Guthrie, 424 Jefferson St., archts.

Wis., Racine—Racine Investment Co., 401 Lake St., having plans prepared by E. B. Funston Co., 503 Robinson Bldg., 2 story, 82 x 120 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000.

Minn., East Grand Forks — Minnesota Sugar Co., 811 Metropolitan Bank Bldg., Minneapolis, plans factory, here. $1,500,000. H. A. Douglas, pres. Engineer and architect not selected.

Minn., St. Paul—Western Fruit Express Co., 1505-1506 Pioneer Bldg., having plans prepared car repair shop, brick and concrete, "Hamline Site" in Midway Dist. $50,000. F. G. Luth, mechanical supt. Private terms.

Mo., Cameron—Plans election to vote on $64,550 bonds for electric light plant improvements. Burns & McDonnell, 401 Interstate Bldg., Kansas City, engrs.

Mo., Columbia—See "Waterworks."

Mo., St. Louis—Electric Storage Battery Co. of Phila., Federal Reserve Bank Bldg., having preliminary plans prepared by Kleipstein & Rathmann, Chemical Bldg., 2 and 3 story, rein.-con. and brick factory, plain foundation, 30,000 sq ft. floor space, Vandeventer St. $200,000. First of group of 3 similar buildings.

Tex., Corsicana—Humble Oil & Refining Co. plans casing head gasoline plant, at Mildred Pike. $200,000. Private plans.

Tex., Dallas—A. A. Jackson, 901 South Pearl St., plans light industrial building, Elm and Lamar Sts. Cost to exceed $50,000. Architect not announced.

Tex., Dallas—Texas Farm Labor Union, c/o R. R. Claridge, Bonham, plans warehouse and cold storage plant, here. $40,000. Engineer and architect not announced.

Wash., Hillyard — Western Fruit Express Co., 1505-1506 Pioneer Bldg., St. Paul, having plans prepared car repair shop, brick and concrete, here. $50,000. F. G. Luth, mechanical supt. Private plans.

Calif., Long Beach—Long Beach Press having plans prepared by W. H. Austin, 1st Natl. Bank Bldg., 12 story, basement and sub-basement, 75 x 150 ft., newspaper plant and office, rein.-con., Bway. $1,000,000.

Calif., Los Angeles—Baldwin Motor Co., 1201 South Figueroa St., having plans prepared by W. D. Lee, Sun Drug Bldg., 4 story and basement, 75 x 200 ft. rein.-con. garage, South Figueroa St.

Calif., Los Angeles—Lloyd & Casler, Orpheum Bldg., had plans prepared by L. A. Smith, Lily-Fletcher Bldg., 3 story and basement, 50 x 150 ft., brick or concrete, warehouse and loft, Wall St.

Calif., Los Angeles—Los Angeles Motor Bus Co., Railway Bldg., had plans prepared 2 story, garage and office, rein.-con., North Virgil St. $60,000. Private plans.

Calif., Los Angeles — L. R. Lurie, 315 Montgomery St., San Francisco, had plans prepared by O'Brien Bros. Inc., 315 Montgomery St., San Francisco, 2 story and basement, rein.-con. auto stage terminal, Los Angeles and 6th Sts., here. $200,000.

Calif., Los Angeles—I. Nussbaum, 5806 South Vermont Ave., having plans prepared by W. F. Bowen, Union League Bldg., 5 story and basement, rein.-con. warehouse, Slausson and Vermont Sts. To exceed $150,000.

Calif., Oakland—Chevrolet Motor Co. of California, Foothill Blvd. and 69th Ave., making plans 1 story and basement, rein.-con. addition to auto plant. To exceed $150,000. Private plans.

Calif., Oakland—Mutual Creamery Co., 3724 East 14th St., having plans prepared by A. W. Smith, Amer. Bank Bldg., 1 story, brick, creamery, 5th and East 11th Sts. $40,000.

Ont., Chesley—W. & C. Window Regula-Cor Co. having plans prepared for plant. $100,000. R. J. Ranney, mgr.

Ont., Cochrane—Temiskaming & Northern Ontario Ry., North Bay, plans plant. $200,000. S. B. Clement, North Bay, ch. engr.

Ont., Hamilton—Canadian Westinghouse Co., Traders Bank Bldg., Toronto, having plans prepared by B. H. Prack, 50 Bay St., Toronto, and soon takes bids 1 story, 205 x 550 ft. rein.-con., brick and steed foundry, plain foundation, Aberdeen St. W. $300,000.

BIDS DESIRED

R. I., Providence—Lockwood, Green & Co., 24 Federal St., Boston, taking bids 2 story, 61 x 110 ft. roll shop and 1 story, 76 x 121 ft. press room, brick and steel, plain foundation, 171 Westminster St., for Textile Finishing Mchy. Co., 171 Westminster St. $200,000. Noted Aug. 9.

N. Y., Palmyra—Sept. 20 by J. F. Strobel, archt., E and B Bldg., Rochester, 1 story and basement, 100 x 200 ft. rein.-con., brick and steel warehouse and factory, for Garlock Packing Co., here. $200,000.

D. C., Wash.—M. Cafritz, 913 15th St., N.W., receiving bids for garage. $200,000. H. H. Warnick, 1108 16th St., N.W., archt.

S. C., Greenville — J. E. Sirrine & Co., engrs., Greenville, receiving bids 2 story and basement, 60 x 120 ft., rein.-con. plant, for Steele-Heddle Mfg. Co.

O., Cleveland—W. H. Hatch, archt., 1114 Guardian Bldg., taking bids 3 story and basement, 34 x 77 ft., brick and steel factory, 2420 Cedar Ave., for Van Gastel Cleaning Co. $40,000. Noted Aug. 9.

O., Cleveland—P. Matzinger, archt., Caxton Bldg., taking bids 1 story, 88 x 124 ft., brick and iron factory addition, for Cleveland Refrigerator Co., c/o F. Pietrowsky, pres., 6600 Sideway Ave. $40,000.

O., Toledo—Page Dairy Co. taking bids 1 story, 80 x 100 ft., rein.-con., brick and steel garage, Wade and William Sts. $50,000. Mills, Whines & Bellman, 1234 Ohio Bldg., archts. and engrs.

Mich., Dearborn—A. Kahn, archt., 1000 Marquette Bldg., Detroit, taking bids and opens same about Sept. 20, 1 story and basement, 56 x 140 ft. rein.-con., brick and steel addition to power house, plain foundation, also 300 ft. connecting tunnel, 9 ft. in diam., Oakwood Blvd., for Ford Motor Co., Highland Park (Detroit P. O.).

Ill., Chicago—L. Bromberg, 1337 Oakley Blvd., receiving bids 1 story, 100 x 250 ft. auto sales and service station, Milwaukee Ave. near Crawford St. $100,000. A. M. Ruttenberg, 64 West Randolph St., archt.

Wis., Arlington—E. A. Banks, Cambria, taking bids 2 story and basement, 60 x 90 ft., brick, rein.-con. and steel plant, plain foundation, here. $50,000. Private plans.

Wis., Beaver Dam — Roedl & Jacobs Lumber Co. taking bids 2 story, 40 x 132 ft., brick and timber warehouse, plain foundation. $40,000. Private plans.

Wis., Chippewa Falls—C. Bigler, 14 East Central St., taking bids 2 story, 30 x 100 ft., brick and concrete warehouse, plain foundation. $40,000. Private plans.

Wis., Cobb — O. F. Guderian and H. Terens, Markesan, taking bids 2 story, 60 x 95 ft., brick, rein.-con. and steel plant, plain foundation, here. $50,000. Private plans. Noted Aug. 16.

Calif., San Francisco—L. J. Devlin, archt., Pacific Bldg., receiving bids 2 story and basement, concrete laundry, Filbert St. and Van Ness Ave., for Roman Catholic Archbishop of San Francisco, 1100 Franklin St.

BIDS RECEIVED

Mich., Marquette—N. A. Nelson, archt., Ironwood, 2 story and basement, 72 x 124 ft. concrete, brick and tile garage, plain foundation, from Niewenkamp & Thompson, Ironwood, $56,560, for E. W. Cork, Marquette. Noted Aug. 23.

D. C., Wash.—Labor Co-operative Educational and Publishing Society, Inc., publication building at 30 B St. S.W., from Schneider & Spleidt Co., 1422 F St., N.W., $167,900. Noted May 31.

CONTRACTS AWARDED

Conn., West Hartford (Hartford P. O.)—Prospect Garage, Prospect Ave., 1 story, 100 x 100 ft., brick and steel garage, plain foundation, to S. C. Poriss Co., 54 Church St., Hartford. Archts. est. $40,000. Noted July 18.

N. Y., Brooklyn — Natl. Lead Co., 111 Bway., New York, 5 story, rein.-con., brick and steel laboratory, plain foundation, York St., here, to R. H. Brown Co., 356 Pearl St. Archts. est. $100,000.

Md., Baltimore—Archers Laundry, c/o J. Archer, proprietor, Howard and Mulberry Sts., 3 story, 103 x 242 ft., brick and concrete laundry, Eutaw, McCulloh and St. Marys Sts., to J. H. Miller, Inc., Eutaw and Franklin Sts., Baltimore. Archts. est. $375,000. Noted July 12.

N. C., Charlotte—Carolina Baking Co., 602 South Church St., 2 story, 100 x 128 ft. bakery, brick and terra cotta, to J. A. Jones Constr. Co., Realty Bldg., $200,000. Noted Feb. 22.

Miss., Vicksburg—Alabama & Vicksburg Ry. Co., 64 x 208 ft. corrugated steel repair shop, 21.5 ft. high, concrete foundation Cherry St., to Truscon Steel Co., Albert Extension, Youngstown, O. Est. cost $57,000.

Tenn., Lebanon—Lebanon Woolen Mills Co., 1 story, 50 x 65 ft. and 60 x 75 ft. buildings for woolen mill, brick and steel, to Tennessee Mfg. & Constr. Co., Lebanon. $50,000. Noted Aug. 16.

Ky., Auburn — Dark Tobacco Growers Coop. Assn., 150 x 196 ft. warehouse, brick and steel, to Peart & Lancaster, Auburn. Est. cost $40,000.

O., Amherst—Cleveland Stone Co., c/o C. W. Walters, pres., Union Bldg., Cleveland, 1 story, 125 x 250 ft., brick and steel factory, here, to Forest City Steel & Iron Co., 1500 West 110th St., Cleveland. Archts. est. $75,000.

O., Cleveland — Brush Garage Co., c/o Watson Co., archts., 4614 Prospect Ave., 2 story and basement, 110 x 110 ft., brick

Industrial Works (Continued)

and rein.-con. garage, Prospect Ave. near East 55th St., to Crowell & Little Constr. Co., 3751 Prospect Ave. Archts. est. $100,000. Noted Sept. 6.

O., Cleveland—Cleveland Cap Screw Co., 2921 East 79th St., 2 story, 66 x 95 ft., brick and steel factory, to L. Dantel Son, 5710 Hough Ave. Archts. est. $40,000.

O., Cleveland — Thorsell Bros., Mayfield and Sheffield Rds., 1 story, 50 x 100 ft., brick and timber garage and repair shop, to Rau Constr. Co., 682 East 140th St. Archts. est. $40,000.

O., Dayton—McCall Publishing Co., general contract 1 and 2 story, 280 x 440 ft., brick and steel plant, to Frank Hill Smith Co., Houk Rd., $350,000; 512 tons steel, to Berger Co. and Dayton Structural Steel Co., 184 Howell St., $53,000.

O., Euclid—See "Sewers."

O., Toledo—Beck Motor Sales Co., 1944-46 Spielbusch St., 60 x 85 ft. garage and salesroom, to W. F. Pioch, 333 North Erie St., $40,000.

O., Toledo — Fame Laundry Co., 2125 Ashland, St., plant addition to Watts Suhrbier Co., 1235 Miami St., $41,000.

Mich., Detroit—See "Buildings."

Mich., Detroit — Caughey-Jossman Co., 5075 Grand River Ave., 80x286 ft. garage and service building and 100x115 ft. sales room, Grand River Ave., to Everett-Winters Co., 751-754 Book Bldg., Mack International Motor Truck Co., lessee.

Mich., Detroit—H. C. Nicholson, 5843 Commonwealth Ave., 1 story and basement, 80 x 136 ft. brick and steel garage, plain foundation, Commonwealth Ave., to W. S. Pocock, 815 Hammond Bldg. Archts. est. $40,000.

Mich., Menominee — Lloyd Mfg. Co., North State St., 3 story and basement, 72 x 210 ft. rein.-con. addition to factory, plain foundation, to H. J. Selmer Co., McCartney Natl. Bank Bldg., Green Bay, Wis. Engrs. est. $75,000.

Ill., Chicago — Ronneberg & Pierce, archts., 10 South La Salle St., 3 story, 48 x 50 ft. factory, mill construction, 1114-1118 West Monroe St., to Broline-Nolan Co., 5 North La Salle St., for D. O. James Mfg. Co., 1120 West Monroe St. Archts. est. $50,000. Noted Aug. 16.

Ill., Chicago — J. Hocke, archt., 7602 Chappell Ave., 1 story, 100 x 125 ft. auto sales and service station, 3417-25 Diversey Parkway, to Johnson-Anderson Co., 7120 Evans Ave., for F. E. Jonas, 133 West Washington St. Archts. est. $45,000.

Wis., Appleton—Riverside Fibre & Paper Co., Government Canal, 1, 2 and 5 story, 67 and 89 ft. x 251 ft., rein.-con. finishing mill, plain foundation, to C. R. Meyer & Son Co., 50 State St., Oshkosh. Archts. est. $325,000.

Wis., Cuba City—Zinc Hill Mining Co. will build 1 story, 75 x 120 ft., brick and rein.-con. plant, plain foundation, by day labor. $50,000. Private plans.

Wis., Manitowoc — Grimm Aluminum Casting Co., South 21st St., 1 story, 50 x 84 ft., brick and steel foundry, plain foundation, 21st and Franklin Sts., to M. S. Dempsey, 1911 Marshall St., Manitowoc. Steel to Worden-Allen Co., Port Washington Rd., Milwaukee. Noted Aug. 9.

Wis., Manitowoc—E. W. Krug Mfg. Co., 918 South 19th St., 1 story, 80 x 90 ft., rein.-con., brick and steel machine shop, plain foundation, to J. J. Schoblaska Co., 917 South 21st St., Manitowoc. Private plans.

Wis., Milwaukee—M. Carpenter Baking Co., 102 7th St., 1 story, 40 x 106 ft. and 50 x 52 ft. additions, brick and concrete, plain foundations, to G. J. Dunn, 615 Downer Ave., and F. Wilke, 1253 36th St. Archts. est. $50,000.

Wis., Milwaukee — Milwaukee Electric Ry. & Light Co., 2nd and Sycamore Sts., 2 story, 50 x 70 ft., brick and concrete boiler house, plain foundation, Edison Ave., to P. W. Bringe Co., 940 3rd Ave. Archts. est. $70,000. Noted Aug. 9.

Wis., Sheboygan—Bemis Riddel Co., 15th and Illinois Aves., 4 story, 65 x 140 ft., rein.-con., brick and steel factory, plain foundation, to Van Doeslaar Co., 1712 North 2nd St., Sheboygan. Archts. est. $50,000.

Minn., Duluth—Security Van and Storage Co., 14 East Michigan St., 7 story and basement, 85 x 100 ft. storage warehouse, brick and steel, Michigan St. and Lake Ave. S., to Jacobson Bros., Columbia Bldg., $250,000.

Minn., St. Paul—Golden Rule Department Store, c/o S. W. Dittenhoefer, secy., 95 East 7th St., 6 story and basement, 85 x 110 x 231 ft. warehouse, rein.-con. and brick, Lafayette and Woodward Aves., general contract to F. J. Romer Constr. Co., 190 Ramsey St., $275,000.

Neb., Omaha—Fairmont Creamery, 12th and Jones Sts., 2 story and basement, 132 x 132 ft. garage and poultry house, rein.-con. and brick, general contract to E. P. Gould & Son, 32nd St., $90,000.

Tex., Corsicana — Navarro Ice Co. 1 story, 90 x 150 ft. ice plant, brick and concrete, 12th St., to Carson & Gallahar, Corsicana, cost plus percentage basis. Archts. est. $100,000. Noted Aug. 16.

Tex., Lubbock—Lubbock Cotton Compress Co., will build cotton compress, storage sheds, concrete, etc., by day labor. $75,000.

Calif., Oakland—California Wire Cloth Co., 1001 22nd Ave., 1 story, brick factory, to Macdonald & Kahn, 120 Montgomery St., San Francisco. Cost to exceed $40,000.

Calif., Oakland—J. R. Kaelin 1933 Fifth Ave., 1 story and mezzanine, laundry, garage and boiler house, brick, 23rd Ave. and Boehmer St., to H. J. Christiansen, 505 17th St., $56,125.

Calif., San Francisco — J. Pasqualetti, Humboldt Bank Bldg., 2 story and basement, rein.-con. garage, Market St. near 15th St., to American Concrete Co., 785 Market St., $40,000. Noted Sept. 6.

Calif., San Francisco—W. M. Schlaes, 2 story and basement, (ultimately 4 story) garage, rein.-con., Ellis St. near Mason St., to Cahill Bros., 110 Sutter St., $75,000.

Ont., Collingwood—Canadian Postel Lock Nut & Bolt Co., factory to D. Well, Collingwood. Engrs. est. $60,000.

Ont., Ford—Ford Motor Co. of Canada, 1 story, 144 x 200 ft. heat treating plant, concrete and steel to Wells & Gray, Ltd., Ford. Engrs. est. $500,000. Noted July 19.

Ont., Hamilton—Hamilton Hydro Comn., substation on Beach Rd. to W. H. Yates Constr. Co., 17 Main St. E., $43,100. Prices wanted on transformers and general equipment, $58,000.

Que., Montreal—J. B. Baillargeon Co., 329 Ontario St. E., will build 8 story, 109 x 155 ft. rein.-con., brick, steel and stone, Ontario St., by day labor. $200,000. A. Surveyer & Co., 511 St. Catherine St. W., engrs. Noted Sept. 6.

Buildings

PROPOSED WORK

Mass., Barnstable—High School—Town of Barnstable appropriated $150,000 for 2 story high school in Hyannis Village. J. M. Leonard, Osterville, chn. building com.

Mass., Newton—School—French Church of St. John the Evangelist, Watertown St., had plans prepared by C. R. Greco, 8 Beacon St., Boston, and takes bids in early fall for 2 story and basement, 90 x 120 ft., brick and rein.-con., plain foundation. $150,000 or more.

Conn., Winsted—Theater—A. Pasquarello having plans prepared by C. C. Palmer, archt., West Main St., New Britain, 2 story, 75 x 170 ft., rein.-con., brick and steel, plain foundation, Oak St. $150,000.

N. Y., Brooklyn—Apartment—J. Horowitz, c/o W. T. McCarthy, archt. and engr., 159 Remsen St., having plans prepared 10 story, brick, steel and stone, plain foundation, Eastern Parkway. $1,000,000.

N. Y., Brooklyn—Apartment—S. L. Malkind, archt. and engr., 16 Court St., preparing plans brick, steel and stone, plain foundation, Bath Ave. $1,000,000. Owner's name withheld.

N. Y., Jamestown—Church—First Presbyterian Church had tentative plans prepared by Cram & Ferguson, 15 Beacon St., Boston, Mass., 1 story, Prendergast St. $150,000. C. Herrick, pres.

N. Y., New York—Apartment—R. T. Lyons, archt. and engr., 342 Madison Ave., preparing plans brick, steel and stone, plain foundation, 109 West 46th St. $350,000. Owners name withheld.

N. Y., New York—Apartment—Springsteem & Goldhammer, archts. and engrs., 32 Union Sq., preparing plans 5 story, 90x125 ft., brick, steel and stone, plain foundation, St. Nicholas Terrace. $250,000. Owners name withheld.

N. Y., New York—Exchange—New York Telephone Co., 15 Dey St., having plans prepared by McKenzie, Voorhies & Gmelin, archts. and engrs., 342 Madison Ave., 4 story, brick, steel and stone addition, Grandview Pl. and 167th St. $690,000.

N. Y., New York—School—Bd. Educ., 500 Park Ave., plans brick, steel and stone school, 1st Ave. and East 99th St. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

Pa., Phila.—Apartment—I. N. Smith, Hotel Marlyn, 40th and Walnut Sts., takes bids Sept. 20, 4 story and basement, 124 x 233 ft. brick, steel and limestone, plain foundation, 40th and Walnut Sts. $500,000. E. A. Wilson, 1208 Chestnut St., archt.

D. C., Wash.—Apartment-Hotel—B. S. Simmons, archt., Dist. Natl. Bank Bldg., preparing plans apartment hotel, 112 apartments, etc., Massachusetts Ave., 13th and M Sts., N.W. $1,000,000. Owner's name withheld.

D. C., Wash.—Bank and Office—Washington City Central Trust Co., Metropolitan Bank Bldg., having plans prepared by Coolidge & Shattuck Ames Bldg., Boston, Mass., bank and office building, 15th St. and New York Ave., here, $1,500,000.

D. C., Wash.—Schools—Dist. Comrs., 509 Dist. Bldg., having plans prepared addition to Tenley School, $160,000; also new school at P St., between North Capitol and M St., N.W.

W. Va., Huntington—Store—West Virginia Hardware & Supply Co. having plans prepared by Meanor & Handloser, Robson-Prichard Bldg., 2 story, 150 x 245 ft., concrete and steel. $250,000.

N. C., Charlotte—Theatre and Office—J. H. Cutter, Commercial Bank Bldg., having revised plans prepared by W. L. Stoddart, archt. and engr., 9 East 40th St., New York City, for 3 story. Noted May 24.

Fla., Ft. Lauderdale — Hotel — Tarpon Bend Hotel Co., c/o W. S. Pratt, Miami, having plans prepared by Pfeiffer & O'Reilly, archts., and C. J. O'Reilly, engr., Lemon City, 10 story, 60 x 300 ft., rein.-con., Tarpon Bend, here. $360,000.

Fla., Palm Beach—Apartment—D. P. Robinson & Co., and associates, 125 East 46th St., New York City, having plans prepared by J. E. R. Carpenter, archt., 598 Madison Ave., New York City, and E. McCullough, engr., 125 East 46th St., New York City, 6 story, 300 rooms, steel and tile, Ocean Blvd., here. $1,000,000.

Fla., Tampa—Office—Florida Realty Co. having plans prepared by M. L. Elliott, archt., Citizens Bank Bldg., and N. W. Geller, engr., 2516 Michigan Ave., 25 story office, to be known as Guarantee Title Bldg. $2,000,000.

Miss., Jackson—Orphanage—Mississippi Methodist Episcopal Orphanage having plans prepared by H. N. Austin, archt., Jackson, 3 story, brick. Cost to exceed $150,000.

La., New Orleans—Church—First Baptist Church, Delachaise and St. Charles Sts., having plans prepared by F. J. MacDonald, Hibernia Bank Bldg., 5 story, 47 x 120 ft., St. Charles and Delachaise Sts. $175,000.

Tenn., Nashville—Hotel—Marr & Holman, archts., Stahlman Bldg., preparing plans 12 story. $1,300,000. Owner's name withheld.

Ky., Ashland—Hotel—Buckingham Hotel Co., soon takes bids 9 story, 143 x 200 ft. $1,325,000. J. R. Gieske, Foster Bldg., Huntington, W. Va., archt.

Ky., Bowling Green—Hotel—T. O. Helm plans 4 story, brick, 840 State St. $165,000. Private plans.

Ky., Louisville—Community House—St. Georges Community, 26th and Oak Sts., plans community house, 26th and Oak Sts. $150,000.

Ky., Louisville—Schools—Bd. Educ. plans school at Okolona and one at Camp Taylor suburbs of Louisville. $150,000. Engineer and architect not selected.

Ky., Louisville — Station and Office—Louisville Ry. Co., Traction Bldg., having plans prepared by Joseph & Joseph, Francis Bldg., 6 story, 2nd and Liberty Sts. $1,000,000.

O., Bedford—Commercial—L. Abrams Co., Engineers Bldg., Cleveland, plans 4 story, brick and steel, Columbus and Main Sts., here. $150,000. F. W. Bail, Hanna Bldg., Cleveland, archt.

O., Canton—High School—Plans election to vote on $295,000 bonds 2 story and basement 6th St. S. W. C. J. Keplinger, pres. Bd. Educ.

O., Cincinnati—Hotel—Hotel Alms Co. Alms Pl., plans 12 story, rein.-con. and brick, plain foundation. $2,000,000. H. Hake, Telephone Bldg., archt.

O., Cincinnati—Office—Amer. Druggists Fire Insurance Co., 1004 Mercantile Library Bldg., having plans prepared by J. G. Steinkamp & Bro., 1212 Mercantile Library Bldg., 10 story, 85 x 100 ft., Walnut St. and Central Parkway. $600,000.

O., Cincinnati—School—Cincinnati Conservatory of Music, Highland Ave. and Oak St., Mt. Auburn, plans alterations and

Buildings (Continued)

new buildings. $1,250,000. W. B. Tuthill, 185 Madison Ave., New York City, archt.

O., Cleveland — University — Roman Catholic Diocese, plans to raise $3,000,000 modern university consisting of 3 buildings. J. F. Smith, Swetland Bldg., administrator.

O., Coalburg — Restaurant, etc. — New York Central R.R., c/o G. Herr, West 3rd St. and Lakeside Ave., Cleveland, had plans prepared 3 story and basement, brick, steel and concrete restaurant, bunkhouse and sewage disposal plant, here. $150,000. Private plans.

O., Lakewood (Cleveland P. O.)—Apartment—Yellowstone Realty Co., c/o M. Lavine, 333 Society for Savings Bldg., Cleveland, having plans prepared by Braverman & Havermaet, Ulmer Bldg., Cleveland, 3 story and basement, brick and steel, Clifton Blvd. near Donald Ave., here. $200,000.

O., Portsmouth—Court House—Comrs. Scioto Co. having plans prepared by Weiner & Adkins, 8th St., Cincinnati, stone. $750,000.

O., Warren—High School—Bd. Educ. plans high school. $500,000.

Mich., Detroit—Bank—Natl. Bank of Commerce, West Fort St., having plans prepared by A. Kahn, 1000 Marquette Bldg., 2 story and basement, 85 x 130 ft. rein.-con., brick and steel, plain foundation, Fort St. $150,000.

Mich., Detroit—Hotel—Varney & Varney, archts., 1422 Washington Blvd., preparing plans 8 story and basement, 85 x 150 ft. rein.-con., brick and steel, plain foundation, Alexandrine St. W. $400,000. Owner's name withheld.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcomson & Higginbotham, Industrial Bank Bldg., 2 story and basement, rein.-con., brick and steel, plain foundatiin, Beaumont Ave. $150,000.

Mich., Springwells—School—Bd. Educ. having plans prepared by H. J. Keough, 3440 Cass Ave., Detroit, 2 story and basement, 86 x 160 ft. brick and steel, plain foundation. $170,000.

Ill., Carbondale—Gymnasium—Southern Illinois Teachers College having preliminary plans prepared by E. Martin, state archt., Dept. Pub. Wks. and Buildings, Springfield, 1 and 2 story, 90 x 216 ft. brick, stone and rein.-con., here. $150,000.

Ill., Chicago—Apartment-Hotel—N. E. Feiwell, c/o Loewenberg & Loewenberg, archts., 111 West Monroe St., having plans prepared 8 story, 100 x 150 ft., Granville and Winthrop Sts. $1,000,000.

Ill., East St. Louis—Lodge—Knights of Columbus, 9th and Illinois Sts., having preliminary plans prepared by Barnett, Haynes & Barnett, Century Bldg., St. Louis, Mo., 3 story and basement, 140 x 190 ft., rein.-con. and brick, State St. and Washington Pl. $300,000.

Ill., Effingham—Station—Illinois Central R.R., 135 East 11th Pl., Chicago, and Pennsylvania R.R., Pennsylvania Sta., Pittsburgh, Pa., plan 2 story, brick passenger station, and 1 story baggage station, here, $150,000. F. L. Thompson, Chicago, and J. F. Leonard, Pittsburgh, engrs. of buildings and bridges.

Wis., Madison — Clubhouse and Auditorium—Knights of Columbus Bldg. Assn., c/o J. Blied, chn., 29 West Main St., plans 4 story, rein.-con., brick and steel, plain foundation. $500,000. Architect not selected.

Wis., Mineral Point—High School—Bd. Educ. having plans prepared by E. Tough, Washington Bldg., Madison, 2 story and basement, 80 x 110 ft., rein.-con., brick and steel, plain foundation. $150,000 bonds voted. A. M. Tucker, clk.

Wis., Wausau—School—School Bd. had plans prepared by Openhamer & Obel, Spencer Bldg., for grade school and addition to Central School, 2 story and basement, 53 x 160 ft. and 30 x 45 ft., brick, tile and concrete, plain foundation. $150,000. Soon takes bids on excavation and foundation. S. B. Tobey, supt.

Wis., West Bend—Business—A. C. Fuge Hardware Co. having plans prepared by J. E. Hennen, archt., 74 South Main St., Fond du Lac, 3 story and basement, 86 x 123 ft., tile, brick and steel, plain foundation. $150,000.

Minn., Minneapolis—School—Bd. Educ. plans 2 story and basement, brick and tile, Mississippi River Blvd. $150,000. Bureau of Design, Bd. Educ., archts.

Kan., Augusta—Church—First Methodist Episcopal Congregation, having plans prepared by D. Schuler, archt., 539 First Natl. Bank Bldg., Wichita, 2 story and basement, rein.-con., brick and stone.

BRIDGE—CHARLESTON, S. C.

Following are lowest three bids opened by State Highway Comn., Aug. 14, for constructing Ashley River Bridge, Charleston Co., Federal Aid Project No. 215, (A) Sandford & Brooks, Baltimore, Md.; (B) Koss Construction Co., Des Moines, Ia.; (C) Hardaway Con.tg. Co., Columbus, Ga. The unit bids were as follows:

Approaches—Including All Substructure	A	B	C
4,860 lin.ft. 18 in. square concrete piles	$3.10	$3.60	$3.70
7,200 lin.ft. treated timber piles (fenders)	0.95	2.00	1.00
47,120 lin.ft. 16 in. square concrete piles	2.89	3.25	3.50
7,554 cu.yd. class AA concrete (superstructure)	32.22	29.00	26.50
390 cu.yd. class D concrete	10.00	15.00	20.00
1,560,800 lb. deformed steel bars	0.528	0.05	0.05
3,000 ton rip rap	4.25	6.00	5.00
3,148 lin.ft. concrete railing	4.20	4.00	3.00
5,900 sq.yd. roadway pavement (sheet asphalt)	1.60	2.50	2.00
10,000 cu.yd. sand fill	0.85	2.00	0.40
63,700 lb. structural steel	0.105	0.10	0.08
4,000 cu.yd. extra excavation	1.00	1.50	1.00
16 M. ft. B.M. treated lumber (fenders)	145.00	140.00	100.00
5,440 cu.yd. class AA concrete (seals), price to include excavation	28.62	40.00	37.00
5,368 cu.yd. class AA concrete (shafts)	32.06	21.00	36.00
21,320 lb. iron castings	0.12	0.10	0.12
Bascule Superstructure			
756,780 lb. structural steel	$0.098	$0.11	$0.085
60,500 lb. trunnions, bearings, castings, etc.	0.33	0.31	0.30
84,300 lb. operating and lock machinery	0.33	0.35	0.30
480 cu.yd. counterweight concrete	28.00	22.00	30.00
14,000 lb. deformed steel bars	0.08	0.05	0.05
572 sq.yd. wood block pavement (treated)	3.75	2.50	5.00
11,500 lb. metal fastenings for floor	0.08	0.10	0.06
304 lin.ft. metal railing	3.75	5.00	3.00
Electrical operating power equipment complete (lump sum)	27,700.00	25,000.00	22,000.00
4 operators houses	2,000.00	1,000.00	2,500.00
Maintenance of traffic (lump sum)	4,500.00	6,000.00	5,000.00
Removal of old bridge (lump sum)	11,500.00	10,000.00	5,000.00
Extended totals	$1,067,466	$1,092,270	$1,093,487

Kan., Augusta — Theater — D. Bisagnio having preliminary plans prepared 2 story, 60 x 125 ft., rein.-con., brick and stone, plain foundation. $150,000. Architect not announced.

Kan., Topeka—Library—City making preliminary plans 2 story and basement, rein.-con. and brick, plain foundation. Plans election to vote on $250,000 bonds.

Neb., Falls City—Courthouse—W. F. Gernandt, archt., 1408 North 8th St., Omaha, takes bids about Oct. 1, 2 story and basement, 66 x 100 ft., rein.-con., brick, steel and terra cotta, for Richardson Co. $200,000. Noted Mar. 22.

Mo., Springfield—Science Hall—State Teachers College, having preliminary plans prepared 2 story and basement, brick, concrete and local stone. $200,000. Engineer and architect not selected.

Mo., St. Louis—Temple—Lambskin Lodge A. F. & A. M., c/o F. G. Fussel, secy., 3305 Utah St., having preliminary plans prepared by Nolte & Nauman, Fullerton Bldg., 2 story, 75 x 100 ft., brick, concrete and stone, Parkview Ave. $125,000-$150,000.

Ark., Blythville—Church—First Methodist Episcopal Congregation plans 2 story and basement, brick and stone. $200,000. A. N. Butts and M. W. Pyles, head com. in charge. Architect not selected.

Ark., Forrest City—Hotel—Hockenbury System Inc., 200 North 3rd St., Harrisburg, Pa., making preliminary plans 6-8 story, rein.-con. and brick, plain foundation, here, $150,000. Private plans.

Tex., Commerce—Auditorium—East Texas State Teachers' College having plans prepared by C. H. Page & Bros., archts. and engrs., Austin Natl. Bank Bldg., Austin, concrete and stone. $275,000-$300,000.

Tex., Eagle Lake—High School—Giesecke & Harris, archts. and engrs., 406 Littlefield Bldg., Austin, takes bids about Sept. 20, 2 story, 125 x 140 ft., rein.-con., brick and stone, concrete pile. $150,000.

Tex., Ft. Worth—Dormitory—Masonic Orphans' Home making plans and takes bids latter part September, 3 story, brick and concrete, plain foundation. $150,000. W. G. Clarkson, First Natl. Bank Bldg., archts. and engrs.

Tex., Ft. Worth — Sanitarium — C. H. Harris, 5th and Rosedale Sts., making plans brick and concrete, 5th and Rosedale Sts. $250,000. Engineer and architect not announced.

Tex., Ft. Worth—Y. M. C. A., 914 Monroe St., will revise plans and readvertise for 4 story and basement, brick, stone and concrete, 5th and Lamar Sts. $300,000. W. G. Clarkson, 1st Natl. Bank, archt. and engr. Noted Aug. 2.

Tex., Houston—Apartment—J. M. Glover, archt. and engr., Binz Bldg., making plans 6 story and basement, brick and concrete. $300,000. Owner's name withheld.

Tex., Houston—Hospital—City Com. and Harris Co. will have revised plans prepared and readvertise 4 story and basement, hospital. $200,000. W. A. Dowdy, city archt. Noted Apr. 5.

Tex., Houston — Synagogue — Congregation Beth-Is-Rael having plans prepared by Finger & Cato, engrs. and archts., Woolworth Bldg., 2 and 3 story, brick, stone and concrete. $275,000.

Tex., Kingsville—Administration — State Teachers' College having plans prepared by Endress & Cato, Bankers' Mortgage Bldg., Houston, brick, stone and concrete, here, $300,000. M. O. Flowers, Lockhart, chn. Bd. Regents.

Tex., Marshall—Schools—Election Oct. 9 to vote on $250,000 bonds for schools. Elrod Eng. Co., 3206 Elm St., Dallas, engrs. Noted Apr. 19.

Tex., San Antonio—Apartment—S. L. Jeffers, 1 Bushnell Pl., having plans prepared by H. T. Phelps, archt., 516 Hicks Bldg., and M. L. Diver, engr., Calcasieu Bldg., 7 story, 80 x 110 ft., rein.-con., brick and stone, Ave. E and 3rd St. $160,000.

Tex., San Antonio—Medical Arts—Subscription & Loan Co. had plans prepared and expect to call for bids by Sept. 25, 12 story, rein.-con., steel, terra cotta and cut stone, concrete pile foundation, Houston St. and Ave. E. $900,000. W. E. Simpson Co., N. B. of C. Bldg., engrs. R. H. Cameron, 1115 City N. B. Bldg., archt. Noted May 10.

Okla., Oklahoma City — Apartment — Laird-Arms Co., c/o Bailey & Alden, archts., Colcord Bldg., having plans prepared 12 story, 162 x 200 ft., brick, 10th St. $1,400,000.

Okla., Oklahoma City—Office and Bank—Doctors & Dentists Building Co., having plans prepared by Layton, Smith & Forsythe, 701 Southwest Natl. Bank Bldg., 13 story, 1st St. and Bway. $1,000,000.

Okla., Ponca City—Lodge—R. P. Baughman, having plans prepared by Smith & Senter, Okmulgee, 5 story, 50 x 140 ft., concrete and steel, East Walnut St. $200,000.

Calif., Burlingame—Church—First Methodist Church of Burlingame, c/o P. V. and R. S. Tuttle, archts., 557 12th St., Oakland, having preliminary plans prepared 2 story and basement, hollow tile and brick, here. $150,000.

Calif., Glendale—Theatre, Store and Office—W. McMillan, et al., c/o A. G. Lindley & C. Selkirk, archts., American Bank Bldg., having plans prepared rein.-con., Brand Blvd. To exceed $150,000.

Calif., Long Beach—Bank and Office—Security Trust & Savings Bank having plans prepared by Curlett & Beelman, Union Bank Bldg., Los Angeles, 12 story and basement, 75 x 150 ft., brick and steel, 1st and Pine Sts. $1,000,000.

Calif., Long Beach—Store and Hotel—H. Earp, et al., 718 East 6th St., having plans prepared by E. H. Gates, 1261 American Ave., 3 story and basement, 75 x 185 ft., brick or concrete, American Ave.

Calif., Long Beach—Theatre and Apartment—F. Markwell, Markwell Bldg., having plans prepared by H. H. Lochridge, Markwell Bldg., 3 story, 111 x 150 ft., Belmont Pier.

Buildings (Continued)

Calif., Los Angeles—Apartment—G. E. Barrett, 931 Bartlett Bldg., plans 125 x 175 ft., about 12 story, 6th and Rampart Sts.

Calif., Los Angeles—Apartment—H. A. Page, 406 Acacia Ave., plans 4 or 5 story, East Palmer Ave. To exceed $150,000.

Calif., Los Angeles—Church—St. Basils Catholic Church, Catalina and 7th Sts., plans church, fireproof, Harvard Blvd. and Wilshire St. To exceed $350,000. E. R. Kirk, pastor.

Calif., Los Angeles — Market — Youngs Market Co. Inc., 638 South Bway., had plans prepared by C. F. Plummer, Story Bldg., 150 x 150 ft., 7th St. and Union Ave. To exceed $250,000.

Calif., Los Angeles—Orphanage—Jewish Orphans Home, 137 West Adams St., having plans prepared by S. T. Norton and F. H. Wallis, 716 South Spring St., group of 1 and 2 story building, West Moreland Ave. $150,000.

Calif., Los Angeles—Store—First Natl. Bank of Los Angeles, Bell St., having plans prepared by A. C. Martin, Higgins Bldg., 5 story and basement, brick and steel, Bway. $350,000.

Calif., Oakland—Post Office—Oakland Building & Mortgage Co., 308 12th St., having plans prepared by Schuler & McDonald, 308 12th St., two 1 story, rein.-con. and steel, Willow St. between 15th and 16th Sts. $200,000. United States Government, lessee.

Calif., Paso Robles—High School—Paso Robles Union High School Dist. having plans prepared by O. L. Clark, Chapman Bldg., Los Angeles, group of concrete buildings. $200,000.

Calif., Sacramento—Store and Loft—W. S. and H. H. Hart, 2199 3rd Ave., having plans prepared by Woollett & Lamb, Mull Bldg., 3 story and basement, brick and terra cotta, K St. $200,000.

Calif., San Bernardino—Schools—City plans to vote on $200,000 to $300,000 bonds for improvements to schools.

Ont., Hamilton—School—Bd. Educ. having plans prepared by Witton & Walsh, 7 Hughson St., 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation, Murray St. $150,000.

Ont., Toronto — Exchange — Standard Stock & Mining Exch., 56 King St. W., having plans prepared by N. A. Armstrong, Ltd., 11 King St. E., 7 story and basement, rein.-con., brick, steel and stone, plain foundation, 76 King St. W.

Ont., Toronto — Sunday School — High Park Methodist Church, High Park Ave., had plans prepared by Belfry & Wilson, 2 Bloor St., E., 3 story and basement, 70 x 140 ft. rein.-con., brick and steel, plain foundation, High Park Ave. $150,000.

BIDS DESIRED

N. Y., New York—High School—Sept. 25, by Bd. Educ., 500 Park Ave., James Morris High School, brick, steel and stone, plain foundation, Boynton Ave. and 172nd St. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

N. Y., New York—Hotel—See "Contracts Awarded."

N. Y., Richmond Hill—School—Sept. 18, by Bd. Educ., 500 Park Ave., New York. P. S. 108, brick, steel and stone, plain foundation, Suwanee Ave. and 18th St., here. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt and engr.

N. J., Ocean City—Bank and Office—Sept. 14, by P. A. Davis & Dunlap, archts., 1713 Sansom St., Phila., superstructure for 7 story, 62 x 96 ft., rein.-con., brick and limestone, 8th and Asbury Sts., here, for Ocean City Bank. Will take bids Sept. 1 for concrete piling. Total cost $190,000.

Ky., Louisville—Infirmary and Home—Oct. 9, by D. X. Murphy & Bro., archts., Louisville Trust Bldg., 5 story, 50 x 388 ft. infirmary with 42 x 115 ft. wings, also 4 story, 42 x 215 ft. home, brick, rein.-con. and stone, Eastern Parkway, for St. Josephs Infirmary, 5th St. $1,000,000. Noted Aug. 30.

Ky., Louisville—Temple—Oct. 20, by Nevin, Wischmeyer & Morgan, archts., Starks Bldg., constructing temple, 4th and Breckenridge Sts., for Scottish Rite Assn., 438 6th St. $750,000. Noted June 14.

D. C., Wash.—Apartment—C. D. Sagar, 924 14th St., receiving bids for apartment building. $180,000. G. T. Santmyer, 1415 K St., N.W., archt.

O., Cleveland—Apartment—C. A. Hanson, c/o W. S. Ferguson Co., archts., 1900 Euclid Ave., taking bids 3 story and basement, brick and steel, Fairchild Dr. $300,000.

Mich., Dearborn—Library—Sept 25, by Bd. Directors Public Library, 2 story and basement, rein.-con., brick, steel and stone, plain foundation, Michigan Ave. $150,000.

Ill., Chicago—Apartment—A. Fader, 22 West Monroe St., receiving bids 3 story and basement, 65 x 198 ft., 7411-29 Jeffery Ave. $175,000. L. M. Mitchell, 138 North La Salle St., archt.

Ill., Chicago—Apartment, Store, etc.—Loewenberg & Loewenberg, archts., 111 West Monroe St., receiving bids 3 story apartment, store and office building, Elston St. and North Kenneth Ave., for Ecker Bros., c/o architects. $300,000.

Ill., Evanston—Store and Office—Loewenberg & Loewenberg, archts., 111 West Monroe St., Chicago, receiving bids 2 story, 116 x 120 ft. store and office, 518 Davis St., here. $175,000. Owner's name withheld.

Wis., Milwaukee—Apartment and Sales—M. Tullgren & Sons, archts., 425 East Water St., taking bids 3 story and basement, 60 x 150 ft., brick and concrete, plain foundation, Wells St., for Statzer Granite Co., 723 Grand Ave. $150,000.

Wis., Sheboygan Falls—School—Oct. 2, by Sheboygan Co. Normal School Bd., (Sheboygan) 2 story, 88 x 132 ft., rein.-con., brick and steel, here. $150,000. O. F. Huhn, chn. E. A. Shubenrauch, North 8th St., Sheboygan, archt.

Ia., Iowa City—Hospital—Sept. 19, by State Bd. Educ., Des Moines, 3 story and basement, rein.-con., brick, tile and stone, at State University, here, $175,000. W. H. Gemmill, secy. Proudfoot, Bird and Rawson, 810 Hubbell Bldg., Des Moines, archts.

Minn., Duluth—Apartment Hotel—Sept. 29, by Carlsted Bros. at office of Whitney Wall Co., 301 Torrey Bldg., 4 story and basement, 100 x 140 ft., brick and steel, 3rd St. and 1st Ave. W. $250,000. Holstead & Sullivan, 407 Torrey Bldg., archts. and engrs.

Minn., Duluth—Hotel—Sept. 28, by C. Schroeder & Sons, 86 Michigan St., Milwaukee, Wis., 8 story and basement, 165 x 180 ft., brick and steel, Linden Rd. and 12th Ave. E., here. $1,000,000. M. Tullgren & Sons Co., 425 East Water St., Milwaukee, Wis., archts. and engrs.

Minn., Duluth—Lodge—Sept. 22, by E. Bourgard, chn. com. Knights of Columbus, 224 West 1st St., 3 story and basement, 100 x 140 ft., brick and stone, 2nd St. and 2nd Ave. W. $150,000. Halstead & Sullivan, 410 Palladio Bldg., archts. and engrs.

Minn., Virginia—School—Oct. 10, by F. Johnson, secy. Bd. Educ., 2 story and basement, 60 x 115 ft., rein.-con. and brick, South Side. $150,000. C. W. Kelly, 505 Lonsdale Bldg., Duluth, archt. and engr.

N. D., Mandan—High School—Sept. 24, by Bd. Educ., 2 story and basement, 65 x 136 ft. rein.-con., brick, stone and tile. $150,000. G. R. Horton, Jamestown, archt.

Tex., Arlington—Lodge—Sept. 22, by R. H. Cameron, archt. and engr., 115 C. N. B. Bldg., San Antonio, 3 story, 90 x 140 ft., rein.-con., brick, stone and terra cotta, concrete pile foundation, for Eastern Star Lodge of Texas. $160,000.

Tex., San Antonio—Y. M. C. A. taking bids 8 story, 90 x 120 ft., rein.-con., brick, steel and stone, Pecan and Navarro Sts. $400,000. Adams & Adams, 516 Gibbs Bldg., archts. W. E. Simpson Co., N. B. of C. Bldg., engrs. Noted June 14.

Calif., Los Angeles—Schools—Sept. 19, by Bd. Educ., constructing Sawtelle School, 2 story, 4th St. and Nebraska Ave. and school on 59th St. and 2nd Ave. $84,000 each.

BIDS RECEIVED

N. Y., Wende (Millgrove P. O.)—Home and Infirmary—Supervs. Erie Co., City Hall, Buffalo, general contract 2 and 3 story, brick, stone and steel, here, from H. Shenk, Erie, Pa., $1,079,900; plumbing and heating from Chippewa Plumbing Co., Inc., 329 Delaware Ave., $92,500 and $71,500 respectively. Noted July 26.

N. J., Brunswick—Recitation—Dept. Agencies and Institutions, Trenton, general contract, 2 story, 78 x 150 ft., rein.-con., brick and steel, at State Agricultural College for Women, here, from C. J. Smith Constr. Co., 204 Academy St., Trenton, $199,936. Noted Aug. 30.

Ky., Louisville—Temple—Kosairs Assn., 7 story temple, incl. 155 rooms, auditorium and proscenium arch stage, Bway., general contract from C. A. Koerner & Co., 318 East Burnett St. Archts. est. $1,350,000. Noted Aug. 2.

Mich., Detroit—Art—Arts Comn., East Jefferson Ave., 2 story and basement, 148 x 195 ft., 95 x 290 ft. and 112 x 148 ft., Woodward Ave., from Bryant & Detwiler Co., 2336 Dime Bank Bldg., $461,334 using Georgia marble, $448,364 using Vermont marble.

Minn., Willmar — Cottages — State Bd. Control, Capitol, St. Paul, Sept. 4 (change of date), two 2 story and basement, 55 x 120 ft., rein.-con., brick and tile, at State Hospital for Insane, here, from J. H. Olson, Willmar, $123,930. Noted Sept. 6.

CONTRACTS AWARDED

R. I., Providence—Church—Our Lady of Mt. Carmel Church, Spruce St., brick church, to Famiglietti Bros., Bway., cost plus basis. Engrs. est. $175,000.

N. Y., Brooklyn—Apartment—M. Jonas, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., New York, will build brick, steel and stone, plain foundation, 4th Ave. and 72nd St., here, by day labor. $300,000.

N. Y., Brooklyn—Clubhouse—Independent Order of Odd Fellows, c/o Schneider & Werthers, archts. and engrs., Grand Central Terminal, New York, brick and steel clubhouse, 301-09 Schermerhorn St., here, to I. H. Meyer Corp., 590 Sterling Pl. Archts. est. $500,000.

N. Y., Buffalo—Home—Erie Co. general contract for home and infirmary, to H. Schenk, Erie, Pa., $1,079,000; heating and ventilating apparatus, to Chippewa Plumbing Co., 329 Delaware Ave., $71,500.

N. Y., Far Rockaway—Exchange—New York Telephone Co., 15 Dey St., New York, 3 story, 80 x 200 x 225 ft., rein.-con. and brick, here, to Turner Constr. Co., 244 Madison Ave., New York.

N. Y., New York—Apartment—Lanberth Building Corp., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 6 story, brick, steel and stone, Haven Ave., by day labor. $250,000.

N. Y., New York—Apartment—H. and S. Sonn & Co., c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., will build 14 story, 75 x 150 ft., brick, steel and stone, plain foundation, 112 East 39th St., by day labor.

N. Y., New York—Apartment—W. H. B. Realty Co., c/o G. A. Bagge & Sons, archts. and engrs., 299 Madison Ave., will build brick, steel and stone, plain foundation, Ft Washington Ave., by day labor. $250,000.

N. Y., New York—Hotel—Lapidus Eng. Corp., 200 West 72nd St., will build 14 story, 100 x 150 ft., brick, steel and stone, plain foundation, 206 West 70th St. $2,000,000. Owner will do general work and let subcontracts. G. F. Pelham, 200 West 72nd St., archt. and engr.

Ky., Louisville—Administration—Standard Sanitary & Mfg. Co., 4th and Shipp Sts., 4 story, 85 x 150 ft., rein.-con., Shipp St., to L. W. Hancock, Louisville Trust Bldg. Archts. est. $150,000. Noted Sept. 6.

Ky., Murray — School — State Normal School Comn., Frankfort, 3 story, 60 x 120 ft., to Forbes Mfg. Co., Hopkinsville. Archts. est. $150,000. Noted Aug. 16.

O., Cleveland—Apartment—J. Nozik, 996 Linn Dr., 3 story and basement, 87 x 132 ft., brick and timber, 1924 East 75th St., to B. Zuckerman, 11605 Kinsman Rd. Archts. est. $200,000. Noted Sept. 6.

O., Cleveland—Commercial—Watson Co., archts., 4614 Prospect Ave., 4 story (ultimately 8 story) 66 x 189 ft., brick, steel and concrete, Euclid Ave. near East 18th St., to Schirmer O'Hara Co., 2031 Euclid Ave., for Rogers Building, c/o J. J. Callow, 1900 Euclid Ave. Archts. est. $250,000. Noted Aug. 16.

Ind., South Bend—Store and Office—Tuttle Building Co., Michigan and Colfax Sts., 10 story, 100 x 160 ft., concrete and terra cotta, to Bedford Stone Constr. Co., 810 Fletcher Saving and Trust Bldg., Indianapolis, $600,000.

Mich., Detroit—Hotel—Bollin-McKinney Hotel Co., c/o L. Kamper, Kamper Bldg., 8 story and basement, 86 x 116 ft. rein.-con. brick, steel and stone, plain foundation, John R St., to Lynch Constr. Co., 1200 Washington Blvd. Archts. est. $800,000. Noted May 3.

Ill., Chicago—Apartment—R. W. Matteson, 541 Diversey Parkway, 4 story, 70 x 220 ft., 2744-50 Hampden Court, to A. Lindstrom, 77 West Washington St. Archts. est. $275,000.

Ill., Chicago—Church—St. Clara's Catholic Parish, 1 story, 80 x 150 ft., 64th St. and Woodlawn Ave., to A. and E. Anderson Co., 19 South La Salle St. Archts. est. $225,000.

Ill., Quincy—Theatre and Store—Pinkelman & Cory, Gem Theatre, 4 story, 88 x 187 ft., rein.-con. and brick, Washington St., to J. G. Guhmna, Title Guaranty Bldg., St. Louis, Mo. Archts. est. $250,000.

Wis., Milwaukee—School—School Bd., 3 story and basement, brick, tile and concrete, plain foundation, Franklin St., concrete and excavation, to Jahns & Knuth, 1331 28th St., $116,500; masonry, to H. Schmitt & Sons, 430 Farwell Ave., $58,859; structural steel, to C. Hennecke Co., 1353 North Pierce St., $14,065; steam heating to Wenzel & Henoch Co., 498 27th St., $39,887; carpentry, to H. Jahns, 1915 Chestnut St., $43,300. Archts. est. $400,000.

Buildings (Continued)

Wis., Neillsville — Church — St. Marys Congregation, 2 story, 60 x 110 ft., brick and tile, plain foundation, to Immel Constr. Co., 200 North Main St., Fond du Lac. Architects est. $150,000.

Minn., Minneapolis—High School—Bd. Educ., City Hall, 3 story and basement, rein.-con., brick and tile, 13th Ave. S. E. and 6th St., general contract to Fleisher Constr. Co., 1000 Builders Exchange, $479,000.

Ia., Waterloo—Store—P. Davis Dry Goods Co., 510 Commercial St., general contract 5 story and basement, rein.-con., brick, tile and Bedford stone, Commercial St., to J. G. Miller & Son, 813 Black Hawk Bldg., $248,900. Noted Feb. 1.

Kan., Salina—Office—Kansas Wesleyan University, 3 story and basement, brick and stone, to Eberhardt Constr. Co., Salina. Archts. est. $200,000.

Mo., St. Louis—Store and Office—Owner, c/o Saum & Saum, archts., 713 Chestnut St., 2 story and basement, 100 x 100 ft., rein.-con., brick and stone, plain foundation, Grand Blvd. and Gravois Ave., to S. Charleville, 3402 Osage St. Archts. est. $150,000.

Ark., Leavenworth—High School—Bd. Educ., 2 story and basement, 120 x 170 ft., rein.-con., brick and stone, plain foundation, to G. Walker, Leavenworth, $171,000.

Tex., Ft. Worth—Business and Club—A. F. & A. M. Lodge, No. 1114, 5th and Magnolia Sts., 2 story and basement, 75 x 120 ft., concrete, steel, brick and stone, plain foundation, general contrac to K. H. Muse, 201 West Railroad St., $127,000.

Tex., Houston—Y. W. C. A., 3 story and basement, concrete, brick and stone, Dallas and Crawford Sts., to Southwestern Constr. Co., West Bldg., $158,410. Noted Aug. 9.

Okla., Norman—Church—R. M. McFarlan Memorial Congregation, 3 story and basement, 72 x 107 ft., rein.-con., brick, steel and stone, general contract to Holmboe Co., 422 West 2nd St., Dallas, Tex. Archts. est. $500,000.

Okla., Tulsa—Office—Southwestern Bell Telephone Co., 4th and Boston Sts., 2 story and basement, 75 x 140 ft., rein.-con., brick, stone and terra cotta, general contract to Shallenberger Constr. Co., 614 East 4th St., $155,000.

Colo., Denver—Schools—School Dist., 85 x 225 ft. school and 50 x 75 ft. gymnasium, 1 and 3 story, Lincoln St. and 44th Ave., general contract to Windsor & Lund, Interstate Trust Bldg., $139,300.

Wash., Seattle — Hotel — Community Hotel Corp., constructing Hotel Olympic, to Grant, Smith & Co., Henry Bldg., $4,000,000. Noted June 7.

Calif., Los Angeles—Apartment—F. A. Powell, et al., 10 story, fireproof, Hollywood Blvd., to Richardson Building & Eng. Co., 141 North Larchmont Blvd. Est. cost to exceed $750,000.

Calif., Los Angeles—Church—Plaza Community Center Church, c/o Train & Williams, archts., Western Mutual Life Bldg., 50 x 75 ft., rein.-con. church and 4 story, 50 x 75 ft. institutional building, Los Angeles St., to Simpson & Co., 701 Antonio St.

Calif., Los Angeles—High School—Bd. Educ., constructing Fairfax High School, 2 story, 320 x 450 ft., rein.-con. and brick, Fairfax Ave., to North Pacific Constr. Co., Detwiler Bldg., $446,140. Noted Aug. 30.

Calif., San Francisco—Apartment—C. Johnson, 36 Steiner St., will build 6 story and basement, rein.-con., Jones and Sacramento Sts., by day labor. $200,000. Noted Aug. 30.

Calif., San Francisco—Club—Elks Club, 540 Powell St., steel for 13 story and basement, Post St. near Powell St., to Golden Gate Iron Wks., 1541 Howard St., $142,000. Noted Aug. 30.

Calif., San Francisco—School—City and San Francisco Co., constructing Portola Primary school, general contract to Anderson & Ringrose, 320 Market St., $141,650. Noted Aug. 23.

Calif., San Francisco—Theatre, Store and Office—Mandarin Theatre Co., 723 Grant Ave., 3 story, brick and concrete, Grant Ave. near Jackson St., to Monson Bros., 251 Kearny St., $150,000. Noted Sept. 6.

Que., Montreal — School — Protestant School Bd. Comrs., Belmont St., 3 story, 23 x 80 ft. school and 2 story, 22 x 25 ft. house for caretaker, both rein.-con., brick and steel, DeBlencourt St., Cote St. Paul, to J. Shearer Co., Shearer St., $225,000. Noted Sept. 6.

Ont., Toronto—Lunch and Office—Bowles Ltd., 11 King St. E., general contract 3 story and basement, 30 x 100 ft. rein.-con. and steel, King St., to W. T. Joy, 86 High Park Ave., total est. $150,000.

Federal Government Work

PROPOSED WORK

D. C., Wash.—Additions—Dept. of Interior, having plans prepared addition to assembly hall, drill and athletic field, at Howard University.

D. C., Wash.—Bungalows—Dept. of Interior having plans prepared 7 bungalows at St. Elizabeth's Hospital.

Ky., Louisville—Derricks—U. S. Engineer, P. O. Box 72, plans to purchase 6 steel derricks 65 ft. boom, bull wheel diam. 16 ft., complete, exclusive of wire rope, f.o.b. Louisville.

Ky., Owensboro—Piling—U. S. Engineer, P. O. Box 72, Louisville, plans to purchase 500 piles 25 ft. long and 1,000 piles 30 ft. long, not less than 12 in. butt and 8 in. tip, f.o.b. Owensboro, for Dam 46, Ohio River.

Ind., Leavenworth—Steel and Iron Work—U. S. Engineer, P. O. Box 72, Louisville, Ky., takes bids about Sept. 18, for steel and iron work for power house at Lock and Dam 44, Ohio River, here.

H. T. Pearl Harbor—Extension—Spec. 4761—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids extension for battery storage and overhaul, here. Noted July 26.

H. T., Pearl Harbor — Fire Protection System — Spec. 4827 — Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids for fire protection system at Naval Operating Base, here. Noted July 26.

BIDS DESIRED

Mass., Boston—Changes—Sept. 26 by Treas. Dept., Wash., D. C., changes in lighting and ventilating systems in U. S. Post Office and Sub Treasury Bldg., here. J. A. Wetmore, acting superv. archt.; adv. E. N.-R. Sept. 13.

N. Y., Buffalo—Generator Unit, etc.—Sept. 24, by Superintendent of Lighthouses, oil engine-driven electric generator unit and electric motor-driven air compressor unit, etc.; adv. E. N.-R., Sept. 13.

D. C., Wash.—Recreation Building, etc.—Oct. 4, at U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., recreation building, alteration and addition to garage for attendants quarters at U. S. Veterans Hospital 32, Mt. Alto, here. F. T. Hines, dir.; adv. E. N.-R. Sept. 13.

South Dakota—Road—Sept. 17, by J. W. Johnson, dist. engr., Bureau Pub. Rds., Custom House, Denver, Colo., grading 3.766 mi. Custer Pringle National Forest Rd. Project, Custer Co., 25,576 cu.yd. earth and 8,454 cu.yd. rock excav., 60 cu.yd. Class B concrete, etc.

BIDS RECEIVED

Mass., Chelsea—Reroofing—Spec. 4886—Bureau Yards & Docks, Navy Dept., Wash., D. C., reroofing buildings at Naval Hospital, here, (1) work complete, from Howard Bros., 412 Dorchester St., Boston, (1) $34,890 (120 days) (2) $1,244 (3) $10,727 (4) $11,971 (5) add $8,000 (6) deduct $3,700. Noted Aug. 30.

Conn., Norwalk—Dredging—U. S. Engineer, Providence, R. I., dredging 500,000 cu. yd. in harbor, here, from J. S. Packard Dredging Co., Turks Head Bldg., Providence, R. I., $0.179. Noted July 26.

N. Y., Waterloo—Post Office—Treas. Dept., Wash., D. C., for U. S. Post Office, here, from A. M. Lundberg, St. Louis, Mo., $56,500. Noted Aug. 23.

Pa., Phila. — Repairs — U. S. Shipping Board, c/o J. M. Hoffman, Head, Div. of Docks and Wharves, Navy Bldg., Wash., D. C., repairs to substructure and deck on portions of Piers 97, 98 and 99, Greenwich Point, Delaware River, here, from E. Fay & Son, 2 South Mole St., (1) $154,800 (180 days and 240 days) (2) $154,800 (3) $1.35 (4) $250 (5) $250 (6) $250 (7) $35 (8) $60 (9) $60 (10) $75 (11) $75 (12) $75 (13) $175 (14) $1.50. Noted Aug. 9.

Pa., Pittsburgh—Lock—U. S. Engineer, constructing new Lock 7, Monongahela River, from Dravo Contg. Co., Diamond Bldg., $763,591. Noted Aug. 2.

D. C., Wash.—Repairing Roof—Spec. 4902—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing roof of Naval Hospital, here, from Iron Clad Roofing Co., 1121 5th St., N.W., $3,221 (time as specified). Noted Aug. 30.

Mo., Excelsior Springs—Hospital—Spec. 4887—Bureau Yards & Docks, Navy Dept., Wash., D. C., addition to administration, subsistence and ward buildings, at U. S. Veterans Hospital, here, (1) work complete, from Jones Eng. & Constr. Co., 315 Courtney Bldg., Omaha, Neb., (1) $97,500 (2) $83,675 (3) $2,090 (3a) $1,661 (4) add $100 (6) add $1,936 (6a) add $1,324 (7) add $1,300. Noted Aug. 30.

California—Road—U. S. Bureau Pub. Rds., 881 Mills Bldg., San Francisco, surfacing 3 mi. Adin Summit National Forest Highway, from Collins & Seppi, Chico, $64,400.

Calif., Petaluma—Dredging—U. S. Engineer, Custom House, San Francisco, dredging 327,000 cu.yd. in Petaluma Creek, here, from San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, Sect. A, $0.096; from Amer. Dredging Co., 255 California St., San Francisco, Sect. B, $0.32. Noted Aug. 9.

CONTRACTS AWARDED

Ky., Louisville—Clam Shell Buckets—U. S. Engineer, P. O. Box 72, 3 clam shell buckets, 1½ cu.yd. capacity, f.o.b. Owensboro, one to Blaw Knox Co., Freeport Rd., Pittsburgh, Pa.; 2 to G. H. Williams Co., Erie, Pa. Noted Aug. 23.

Calif., San Pedro—Removal—Spec. 4903—Bureau Yards & Docks, Navy Dept., Wash., D. C., removal and relocation of Russell Hall, here, to Palmer Bros., 228 C St., San Diego, $40,781. Noted Aug. 30.

H. T., Pearl Harbor — Roof — Bureau Yards & Docks, Navy Dept., Wash., D. C., roof for Bldg. 67 at Naval Operating Base, here, to Peerless Roofing and Paint Co., Honolulu, $12,647.

Miscellaneous

PROPOSED WORK

Subway—Buffalo, N. Y.—See "Railways."

Telephone Lines—West Virginia—Chesapeake & Potomac Telephone Co., 418 10th St., Huntington, plans telephone lines connecting Logan and Williamson, Huntington and Barboursville, Beckley and Mount Hope, Beckley and Mullins, Hinton and Glade, Hinton and Rainelle, 6,000 cross arms and 1,400 mi. copper wire. $190,000. S. S. Flannagan, dist. mgr.

Seawall and Yacht Basin—Sarasota, Fla.—H. F. Atkinson and associates, Miami, plan seawall and yacht basin, here. $100,000. Engineer not announced.

Levee—Clarksdale, Miss.—Bd. Levee Comrs. Yazoo—Mississippi Delta, rejected bids enlarging 5 mi. Ward Lake levee containing 10,000 cu. yd. topping, 75,000 cu.yd. barquetta enlargement. W. L. Head, Clarkesdale, engr. Noted Aug. 2.

Wharf and Warehouse—New Orleans, La.—Bd. Port Comrs., New Court Bldg., having plans prepared substructure and superstructure concrete wharf, pile foundation, also 1 story steel and metal warehouse, 400 to 1,600 ft. long, 150 ft. wide. $500,000.

Docks, Dikes, Levee Work, etc.—Shreveport, La.—Having preliminary plans and surveys made for rein.-con. docks, dikes and levee work. $400,000 to $450,000. C. E. Smith, Ry. Exch. Bldg., St. Louis, Mo., engr.

Transmission Line—Kentucky—Kentucky Utilities Co., M. E. Taylor Bldg., Louisville, plans 33,000 volt, 3 wire transmission line crossing Green River near Rockport and extending to Central City, supported on 2 steel towers, 100 ft. high, crossing river. $45,000. G. T. Bogard, ch. engr.

Elimination of Grade Crossings—Akron, O.—City, Baltimore & Ohio R.R., Central Union Depot, Cincinnati, Pennsylvania R.R., Broad St. Sta., Phila., and Erie R.R., 50 Church St., New York City, plan elimination of all grade crossings, rails depressed from south Akron to Union Sta., bridges on East Exchange and East Center Sts., here. $2,000,000.

Fill—Lisbon, O.—See "Streets and Roads."

Power Line — Wisconsin — Wisconsin Power, Light & Heat Co., Gay Bldg., Madison, plans 13 mi. extension from Ripon to Dalton. $25,000. Engineer not selected.

Oil Spreader—Madison, Wis.—City plans to purchase oil spreader. P. Walsh, street supt. Engineer not selected.

Golf Links, etc.—Monroe, Wis.—Monroe Country Club plans 9 hole golf course, clubhouse and swimming pool. $50,000. Engineer and architect not selected.

Steam Heating Plant—Sheboygan, Wis.—Sheboygan Mattress Co., 1214 Michigan Ave., having plans prepared for steam heating plant for store and factory building. $25,000. E. A. Juul, Security Bldg., engr.

Gas Mains, etc.—Corpus Christi, Tex.—City plans to lay gas mains in principal streets. Taking bids on pipe. $200,000. L. B. Griffith, Corpus Christi, engr.

Grain Elevator—Houston, Tex.—Harris Co. Navigation Dist. having plans prepared concrete grain elevator, 900 ft. frontage on ship channel, headhouse, tank storage and grain carriers, initial capacity 1,000,000 bu., ultimately 6,000,000 bu. $1,000,000. E. A. Tucker, Court House, engr. J. Metcalf & Co., 108 South La Salle St., Chicago, consult. engr. Noted Aug. 23.

Miscellaneous (Continued)

Tractor and Sub-Soiler—Oakdale, Calif.—Oakdale Irrigation Dist. plans to purchase tractor and sub-soiler, $7,500.

Harbor Improvements—Santa Ana, Calif.—Orange Co. plans to vote on bonds (to exceed $850,000) for improvements to Newport Harbor.

Grade Separation—Kitchener, Ont.—City retained James, Proctor & Redfern, engrs., 36 Toronto St., Toronto, to prepare report for grade separation, here, incl. 7 subways or overhead crossings over Canadian Natl. Ry. tracks. $1,000,000.

BIDS DESIRED

Asphaltic Cement, etc.—Brooklyn, N. Y.—Sept. 20, by E. Riegelmann, boro pres., Borough Hall, furnishing and delivering 300,000 gal. asphaltic cement, 6,000 cu.yd. binder stone, 50,000 asphalt paving blocks, 50,000 grade 1 granite paving blocks, 50,000 wood paving blocks and 60,400 ft. lumber.

Concrete Mixers, etc.—Buffalo, N. Y.—W. J. Kinekenberg, 279 Niagara St., in market for two 21 ft. concrete mixers and two 2 drum hoisting engines.

Asphaltic Cement, etc.—New York, N. Y.—Sept. 19, by H. Bruckner, pres. Bronx Boro, Tremont and 3rd Aves., furnishing 400 ton asphaltic cement, 1,000 cu.yd. 1½ in. and 750 cu.yd. ¾ in. broken trap rock stone, and 1,000 cu.yd. broken trap rock stone screenings.

Heating and Ventilating Apparatus, etc.—New York, N. Y.—Sept. 19, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating and temperature regulating apparatus in Annex to P. S. 72, East 104th and East 105th Sts. and Lexington Ave., here.

Transmission Line—Bethel, N. C.—Sept. 20, by Bd. Aldermen, 13½ mi. transmission line from here to Greenville. E. E. Williams, Greenville, engr. J. W. Rook, mayor.

Dock and Yacht Basin—Sanford, Fla.—Sept. 17, by City Comn., dock and yacht basin. $67,000. Former bids rejected. F. T. Williams, Sanford, engr. Noted Aug. 16.

Gravel—Baton Rouge, La.—Oct. 1, by State Hy. Comn., Reymond Bldg. furnishing 23,860 cu.yd. washed gravel for surfacing Project 329, Sects. A and B, Abbeville-Jennings Highway, Vermillion Parish. J. M. Fourmy, ch. engr.

Hoisting Machinery, etc.—Columbus, O.—D. W. McGrath & Sons, 255 East Broad St., taking bids hoisting machinery and probably steam shovel.

Concrete Piling—Milwaukee, Wis.—See "Bridges."

Grade Separation—Milwaukee, Wis.—Sept. 18, by Dept. Pub. Wks., grade separation on Forest Home Ave., et. al. $60,000. J. Schwada, city engr. Noted June 21.

Portland Cement—St. Paul, Minn.—Sept. 18, by H. W. Austin, city purch. agt., 3,513 bbl. portland cement for paving alleys and section of Wheelock Parkway.

Culvert—Marked Tree, Ark.—Sept. 21, by Bd. Directors D. D. 7, Poinsett Co., rein.-con. culvert, Pride & Fairley, Blytheville, dist. engrs., Elliott & Harman Eng. Co., Memphis, Tenn., consult. engrs.; adv. E. N.-R. Sept. 13.

Levee—Ennis, Tex.—Sept. 17, by E. C. Rapheal, chn. Ellis Co. Levee Impvt. Dist. 2, approximately 1 mi. levee, 18 ft. high, clearing, sodding, draining, etc. C. T. Forest, Waxahachie, engr.

Track Materials—California—See "Railways."

Wharf—Harrop, B. C.—Oct. 2, by R. C. Desrochers, secy. Dept. Pub. Wks., Ottawa, Ont., floating wharf, here.

BIDS RECEIVED

Enclosures—New York, N. Y.—Transit Comn., 49 Lafayette St., Sept. 10, enclosures for 3rd addition to shops at Lenox Ave. and 148th St. Yard, from McHarg Barton Co., 1328 Bway., $960,000. Noted Aug. 30.

Levee System—Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, for State Farm Levee system, 122,566 cu.yd. excav., etc., from Sternberg Dredging Co., Arcade Bldg., St. Louis, Mo., $23,034. Noted Aug. 30.

Road Material — Woodland, Calif. — Yolo Co., 3,230 tons material for Jefferson Blvd., from A. Teichert & Son, Ochsner Bldg., Sacramento, willite $11.62 per ton, asphaltic concrete $10.94.

CONTRACTS AWARDED

Park Improvement—East Boston (Boston P. O.), Mass.—J. B. Shea, chn. Park Dept., City Hall, Boston, grading, draining and erecting concrete bleachers at World War Memorial Park, here, to J. C. Coleman & Sons, 1620 Tremont St., Boston, $32,310.

Heating and Ventilating Apparatus—Buffalo, N. Y.—See "Buildings."

Foundations—Cleveland, O.—Babies' & Children's Hospital, c/o D. Baldwin, Natl. City Bldg., foundations for two 7 story and basement, 60 x 151 ft., brick and rein.-con. hospitals, 11020 Euclid Ave., to Craig-Curtis Co., 4614 Prospect Ave. Total cost $3,300,000.

Coaling Station — Conneaut, O. — New York, Chicago & St. Louis R.R., Columbia Bldg., Cleveland, rein.-con. coaling station, 500 tons capacity, here, to Roberts & Schaeffer, 400 North Michigan Ave., Chicago.

Gas Main Extensions, etc.—Ft. Worth, Tex.—Ft. Worth Gas Co., 213 West 11th St., will build extensions to gas mains in South Ft. Worth, Riverside and Arlington Heights, $75,000; rebuild old lines $50,000, by day labor. O. K. Shannon, 213 West 11th St., engr.

Traffic Signal System—Ft. Worth, Tex.—Traffic signal system, bells, lights, cable, etc., to Grouse-Hines Co., Detroit, Mich., $24,249. Engrs. est. $25,000. Noted July 5.

Wharves—Houston, Tex.—Harris Co. Navigation Dist., 1,720 ft. wharves, in 3 sections, rein.-con. structure, to Doullut & Williams, Carter Bldg., concrete piling $669,000, timber piling $664,000. Noted Aug. 16.

Underground Conduits—Montreal, Que.—Underground conduits in district bounded by St. Lawrence, Craig, Bleury and Lagauchetiere Sts., to Atlas Constr. Co., Ltd., Belmont St., $78,125. Noted Sept. 6.

Electric Light and Power System—Paris, Ont.—Town will extend electric light and power lines by day labor. $25,00. C. B. Barker, clk.

Breakwater—Toronto, Ont.—Dept. Pub. Wks., Parliament Bldgs., Ottawa, 4,440 lin. ft. concrete breakwater on pile foundation, here, to R. Miller & Sons, Lumsden Bldg., $1,030,000. Noted Feb. 8.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: Sept. 19.

Lock Construction

Chicago, Ill.

Sealed proposals for the construction of Lockport Lock, also Miter gates and valves of Lockport and Marseilles Locks will be received at the office of the Director of the Department of Public Works and Buildings, Division of Waterways, Room 121, State House, Springfield, Illinois, until Nine o'clock Central Standard Time of the 19th day of September, 1923, and then publicly opened and read.

The contract, if let, will be awarded to the lowest responsible bidder. The work includes about 170,000 cu.yds. rock excavation, 97,000 cu.yds. of concrete and 2,100 tons of steel work.

Copies of the plans, specifications, proposal blank, etc., may be obtained at the office of the Department, Room 1404, 25 East Jackson Boulevard, Chicago, Illinois upon receipt of a check for Five Dollars made payable to the Division of Waterways, which sum will not be returned.

The State reserves the right to reject any or all proposals.

Bids: Sept. 15.

Water System

WATER DISTRICT NO. 1

Grand Island, N. Y.

Sealed bids will be received until September 15 for the furnishing of all materials and necessary work connected with the construction of a water system. Further information will be furnished upon request. Plans may be seen at the office of the commission, Grand Island, N. Y.

The commissioners reserve the right to reject any or all bids.

EUGENE BUCHER,
Chairman, Board of Commissioners.
HEBER ASHLEY, Engineer.

OFFICIAL PROPOSALS

Bids: Oct. 2.

Construction of Mermentau River Bridge

Baton Rouge, La.

Sealed proposals will be received by the Louisiana Highway Commission, at its offices in the Raymond Building, Baton Rouge, La., up to 12 o'clock noon Tuesday, Oct. 2, 1923, at which time and place they will be publicly opened, for the construction of a highway bridge and approaches over the Mermentau River at Mermentau, La., to be known as the Mermentau River Bridge, Federal Aid Project No. 122.

Construction consists of one channel span of 320 ft., riveted through trusses, 20 ft. clear roadway, 20 ft. above high water elevation and resting on concrete piers 54 ft. high on pile foundations. The plans for the approaching bridging have been prepared for two alternate types:

Alternate "A" consists of a series of 39-foot reinforced concrete deck girder spans resting on reinforced concrete open bents and pile foundations, 7 spans on the east end and 10 spans on west end of bridge.

Alternate "B" consists of a series of 19-foot creosoted timber spans on creosoted piling, 16 spans on east end and 27 spans on west end of bridge.

The earth embankment approaches and gravel surfacing, on the same, containing approximately 30,000 cu.yd. earth borrow and 1,200 cu.yd. gravel surfacing, are to be constructed at the same time the bridge is being constructed but under separate contract.

The entire project will be divided into two sections: Section "A" will be earthwork approaches and Section "B" will be bridge proper. Bids may be submitted on either or both sections and on either or both types of approach bridging.

OFFICIAL PROPOSALS

Information as to the location, character of work, extent and class of material, terms of payment, regulations governing manner of submitting proposals and executing contract, may, on application, be obtained at the office of the Lousiana Highway Commission, Reymond Building, Baton Rouge, La. Plans and specifications may be inspected at the office of the commission in Baton Rouge or will be furnished upon receipt of $5 as payment therefor not to be refunded.

J. M. FOURMY,
State Highway Engineer.
W. T. PETERMAN,
Chairman, Louisiana
Highway Commission.

Bids: Oct. 11.

Filters and Pumping Machinery

Danville, Va.

Sealed proposals will be received by the City of Danville, Virginia, until 4 o'clock p.m., Thursday, October 11th, for furnishing the labor and materials for certain Water Works Improvements.

The work will be under two contracts, namely:

1. For the construction of a coagulating basin, aerator, and reconstruction of filters.
2. For high and low lift centrifugal pumping machinery and electric wiring.

Plans, specifications, form of proposal, bond and contract may be seen at the office of the Engineering Department of the City of Danville, and at the office of Hazen & Whipple, Civil Engineers, 25 West 43rd Street, New York City. Bidders will be furnished with a copy of specifications and blueprints of drawings, upon application and deposit of $10, which will be refunded upon the return of the same in good condition.

The right is reserved to reject any or all bids.

FRANK TALBOTT,
Superintendent Water Department.